LAB MANUAL CONTENTS

- 1) Institute V/M; Department V/M/PEO & PO/PSO Statements.
- 2) Lab Course Syllabus, Lab Course Outcomes, CO Vs PO/PSO Mapping
- 3) Index page with
 - a. University prescribed lab experiments
 - b. 2 or more Advanced experiments (prescribed by the faculty)
 - c. 2 or more Design Experiments (prescribed by the faculty).
 - d. 5 or 10 or more Open-ended Experiments (Problem alone to be defined).
- 4) Index Page: Each Experiment to be mapped against COs & POs/PSOs
- 5) Students Lab Manual and Teachers Lab Manual Preferable!
- 6) 1 Lab Manual with Master Readings has to be maintained.
- Properly corrected students' 2 lab records along students' observation notes are to be maintained.

1

INSTITUTE VISION AND MISSION

INSTITUTE VISION

To emerge as a Centre of Excellence for Learning and Research in the domains of engineering, computing and management.

INSTITUTE MISSION

- Provide congenial academic ambience with state-art of resources for learning and research.
- Ignite the students to acquire self-reliance in the latest technologies.
- Unleash and encourage the innate potential and creativity of students.
- Inculcate confidence to face and experience new challenges.
- Foster enterprising spirit among students.

DEPARTMENT VISION AND MISSION

DEPARTMENT VISION

To become the Centre of excellence for skilled software professionals in Computer Applications.

DEPARTMENT MISSION

- Provide congenial academic ambiance with necessary infrastructure and learning resources.
- Inculcate confidence to face and experience new challenge from industry and society

PROGRAMME EDUCATIONAL OBJECTIVES (PEOs) Ignite the students to acquire self reliance in the State-of-the

Art Technologies.

• Foster Enterprise spirit among students

Graduates of Computer Applications shall

PEO1: Have Professional competency through the application of knowledge gained from fundamental and advanced concepts of structural and functional components in software. (**Professional Competency**)

PEO2: Excel in one's career by critical thinking toward successful services and growth of the organization or as an entrepreneur or through higher studies. (Successful Career Goals)

PEO3:Enhance Knowledge by updating advanced technological concepts for facing the rapidly changing world and contribute to society through innovation and creativity. (**Continuing Education to Society**)

PROGRAMME OUTCOMES (PO's)

- **PO1:** Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- **PO2: Problem analysis:** Identify, formulate, review research literature, and analyze complex engineeringproblems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- **PO3: Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- **PO4:** Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- **PO5:** Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- **PO6:** The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- **PO7: Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- **PO8: Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- **PO**9: **Individual and team work**: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

- **PO**10:**Communication**: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- **PO**11:**Project management and finance**: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- **PO12:Life-long learning**: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Sreenivasa Institute Of Technology And Management Studies(Autonomous), Chittoor. Web Programming Lab Manual **II MCA - II Semester** Т Р С L 0 0 3 1.5 18MCA227 WEB PROGRAMMING LAB **Course Educational Objectives:** CEO1 : To Design Static Web pages using HTML and Dynamic Web Page using PHP. CEO2 :To Learn a Scripting language called Java Script-used to do Client side Validation. CEO3 : To Learn XML & MySQL tool for Defining a database for Web Applications. **CEO4 : To Explore Server Side Technologies like Servlets and JSP.** Exercise : 1 Design the following static web pages required for an online book store web site. 1) HOME PAGE: The static home page must contain three frames. Top frame: Logo and the college name and links to Home page, Login page, Registration page, Catalogue page and Cart page (the description of these pages will be given below). Left frame : At least four links for navigation, which will display the catalogue of respective links. For e.g.: When you click the link "CSE" the catalogue for CSE Books should be displayed in the Right frame. Right frame: The pages to the links in the left frame must be loaded here. Initially this page contains description of the web site. 2) LOGIN PAGE **3) CATOLOGUE PAGE** The catalogue page should contain the details of all the books available in the web site in a table. The details should contain the following: Snap shot of Cover Page., Author Name., Publisher., Price., Add to cart button. Note: Week 2 contains the remaining pages and their description. **Exercise-2:** 4) CART PAGE The cart page contains the details about the books which are added to the cart. **Exercise-3: REGISTRATION PAGE**

Create a "registration form "with the following fields

1)Name(Textfield)

2) Password (password field)

3) E-mail id (text field)

4) Phone number (text field)

5) Sex (radio button)

6) Date of birth (3 select boxes)

7) Languages known (check boxes – English, Telugu, Hindi, Tamil)

8) Address (text area)

VALIDATION

Write *JavaScript* to validate the following fields of the above registration page.

Name (Name should contains alphabets and the length should not be less than 6 characters).

Password (Password should not be less than 6 characters length).

E-mail id (should not contain any invalid and must follow the standard pattern.

name@domain.com)

Phone number (Phone number should contain 10 digits only).

Note : validation of the login page can also be done with these parameters.

Exercise-4:

Design a web page using CSS (Cascading Style Sheets) which includes the following:

Use different font, styles:

Set а background image for both the page single elements and on the page. Control the repetition of the image with the background-repeat property. Define styles for links. Work with layers. Add a customized cursor.

Exercise-5:

Write an XML file which will display the Book information which includes the following:

1) Title of the book.

2) Author Name.

3) ISBN number.

4) Publisher name.

5) Edition.

6) Price.

Write a Document Type Definition (DTD) to validate the above XML file.

Display the XML file as follows.

Hint: You can use some xml editors like XML-spy.

Exercise-6:

User Authentication

Assume four users user1,user2,user3 and user4 having the passwords pwd1,pwd2,pwd3 and pwd4 respectively. Write a servelet for doing the following.

1. Create a Cookie and add these four user id's and passwords to this Cookie.

2. Read the user id and passwords entered in the Login form (week1) and authenticate with the values (user id and passwords) available in the cookies.

If he is a valid user(i.e., user-name and password match) you should welcome him by name(user-name) else you should display "You are not an authenticated user ".

Use init-parameters to do this. Store the user-names and passwords in the webinf.xml and access them in the servlet by using the getInitParameters() method.

Exercise-7:

Install a database(Mysql or Oracle).

Create a table which should contain at least the following fields: name, password, email-id, phone number(these should hold the data from the registration form).

Practice 'JDBC' connectivity.

Write a java program/servlet/JSP to connect to that database and extract data from the tables and display them. Experiment with various SQL queries.

Insert the details of the users who register with the web site, whenever a new user clicks the submit button in the registration page (week2).

Exercise-8:

Write a JSP which does the following job:

Create tables in the database which contain the details of items (books in our case like Book name, Price, Quantity, Amount)) of each category. Modify your catalogue page (week 2)in such a way that you should connect to the database and extract data from the tables and display them in the catalogue page.

IMPLEMENT THE FOLLOWING USING PHP & MySQL

Exercise-9:

- i. Simple Arithmetic, Logical and Relation operation
- ii. Arrays

Exercise-10:

i. String Handling

Exercise-11:

- i. Exception handling
- ii. Functions, Date & Time

Exercise-12:

i. File Operations

Exercise-13:

- i. Various DDL, DML operations in MySQL
- ii.

Exercise-14:

- i. Join Operations in MySQL.
- ii. Connection Establishment Between PHP and MySql Database.

On successful completion of this course, students should be able to

	Course Outcomes	POs related to COs
CO1	Demonstrate Knowledge on HTML, Javascript, Servlet, JSP and PHP to develop an web applications	PO1
CO2	Analyze the Real World problems to be solved by technologies like 7Servlet, JSP and PHP	PO2
CO3	Design and Develop solutions for web applications.	PO3
CO4	Manually Test the functionality of the web application	PO4
CO5	Select appropriate design tools and procedure to implement web applications	PO5
CO6	Follow ethical principles in designing, and implementing various Technologies.	PO8
CO7	Do experiments effectively as an individual and as a member in a group.	PO9
CO8	Communicate verbally and in written form, the understandings about the experiments.	PO10
CO9	Continue updating their skill related to various web technologies like servlet, JSP,PHP for implementating various web applications during their life time	PO12

CO-PO Mapping

Cour se	PO CO	PO 1	PO 2	РО 3	РО 4	РО 5	PO 6	РО 7	PO 8	PO 9	PO 10	PO 11	PO 12
	C207.1	3	-	-	-	-	-	-	-	-	-	-	-
	C207.2	-	3	-	-	-	-	-	-	-	-	-	-
gu	C207.3	-	-	3	-	-	-	-	-	-	-	-	-
mmi	C207.4	-	-	-	3	-	-	-	-	-	-	-	-
rogra	C207.5	-	-	-	-	3	-	-	-	-	-	-	-
Veb F	C207.6	-	-	-	-	-	-	-	3	-	-	-	-
07- V	C207.7	-	-	-	-	-	-	-	-	3	-	-	-
C2	C207.8	-	-	-	-	-	-	-	-	-	3	-	-
	C207.9	-	-	-	-	-	-	-	-	-	-	-	3
	C207	3	3	3	3	3	-	-	3	3	3	-	3

Excellent(3) Good(2)Fair(1) Student successfully completes Student successfully the experiment, records completes Student successfully completes Conduct the data. the experiment, the experiment, records the records the **Experiments** analyzes the data, and unable to analyzes. (CO1) experiment's main data, and analyzes the topics, and explains the experiment's main experiment concisely topics and well. **Analysis and** Thorough analysis of Reasonable analysis Improper analysis of program program developed **Synthesis** of program developed (CO2) designed developed Student understands Student understands what needs to be tested Student understands and designs an what needs to be what needs to be tested and Design tested and designs an appropriate experiment, does not design an appropriate (CO3)and explains the appropriate experiment. experiment concisely experiment. and well Complex Reasonable Thorough Analysis & comprehension Improper comprehension through comprehension through Conclusion through analysis/ analysis/ synthesis analysis/ synthesis (CO4) synthesis Use modern Student uses the tools tools in to develop and execute Student uses the tools executing Student uses the tools correctly, the programs, and correctly. unable to understand properly. the understands the programs limitations of the tool. (CO5) Status report with Status report with clear logical sequence of Report and logical sequence of Status report not properly Writing parameter using organized parameter using (CO6)understandable excellent language language Student will Student will Lab safety demonstrate good demonstrate good Students demonstrate a little understanding and understanding of lab knowledge of lab safety. (**CO7**) follow lab safety safety Performance on teams is excellent with clear Ability to Performance on Performance on teams is work in evidence of equal teams is good with acceptable with one or more teams distribution of tasks equal distribution of members carrying a larger amount of the effort tasks and effort (CO8) and Effort Continuous Highly enthusiastic Interested in Inadequate interest in continuous towards continuous learning continuous learning learning (**CO9**) learning

TABLE 1: RUBRICS FOR Web Programming Lab

Sreenivasa Institute Of Technology And Management Studies(Autonomous), Chittoor.

Course Outcome Attainment (R16)

Dere Te	Fair	Level 1	If Student scored less than 80% of the total mark allotted.	
Day – 10 – Day Evoluation	Good	Level 2	If Student scored greater than 80 % and less than 90% of the total mark allotted.	
Evaluation	Excellent	Level 3	If Student scored greater than 90% of the total mark allotted.	
Intonnol	Fair	Level 1	If Student scored less than 80% of the total mark allotted.	
Practical	Good	Level 2	If Student scored greater than 80 % and less than 90% of the total mark allotted.	
Ехат	Excellent	Level 3	If Student scored greater than 90% of the total mark allotted.	
	Fair	Level 1	If Student scored less than 80% of the total mark allotted.	
Term End Exam (TEE)	Good	Level 2	If Student scored greater than 80 % and less than 90% of the total mark allotted.	
	Excellent Level 3		If Student scored greater than 90% of the total mark allotted.	



Sreenivasa Institute Of Technology And Management Studies(Autonomous), Chittoor.

Web Programming Lab Manual



WEB PROGRAMMING LABORATORY

SUBJECT CODE :16MCA216

Sl. No.	Date	Name of the Experiment/Exercise	Page No.	Marks	Signature
		Design HTML Page to Illustrate			
		1)ORDERED LIST			
1		2) UNORDERED LIST			
		3) DEFINITION LIST			
		Design HTML Page to Illustrate			
		1) TABLE TAG and COLSPAN ATTRIBUTE			
2		2) TABLE TAG and ROWSPAN ATTRIBUTE			
		3) TABLE TAG with both COLSPAN and ROWSPAN			
		Attributes			
		Design a HTML Page			
3		1) To Illustarte FRAMESET AND FRAME TAG			
5		2) That displays a BIODATA FORM USING FORM TAG			
		3) that illustrates CASCADING STYLE SHEET			
4		DESIGNING A LOGIN FORM and REGISTRATION			
4		FORM (with validation)			
		Write and Execute a Javascript program that illustrates			
		1) String Functions			
5		2) Mathematical Functions			
		3) Array Functions			
		4) Java Script functions			
		Write and Execute a Java Script Program			
6		1) that computes Factorial using Recursive Function			
U		2) that computes NCr using Recursive Function			
		3) that creates User Defined Object in Javascript			
7		To Illustrate Java Script Regular Expression			
/		To Illustrate Java Script Built in Objects			
		Design			
8		1) A Student Form with Events			
		2) An Employee Form with Events			
		1) Design A DTD , XML Document and check its well			
9		formedness and validness			
		2) Display an XML Document with CSS			
10		Write a Servlet program for			

reenivasa Ins	titute Of Technology And Management Studies(Autonomous), Chittoor.	Web Programming Lab Manual
	1) Processing a Login Form USING service METHOD OF	
	GenericServlet	
	2) Processing a Color Form USING service METHOD OF	
	GenericServlet	
	3) Processing a Color Form USING doGet METHOD OF	
	HttpServlet	
	4) Processing a Color Form USING doPost METHOD OF	
	HttpServlet	
	1) Reading Servlet parameters	
11	2) Process a Login Form using JSP	
11	3) Process a Color Form using JSP	
	4) Display a Cart Page from Catalog page	
	1) Passing Data from one Page to Another Page	
12	2)Illustration of Session and Application Scope 3)	
	Illustration of JSTL Core Tags	
	1) Process the Login Form using PHP 2) PHP Program to	
13	perform Arithmetic Operations. 3) PHP Program to	
	perform Relational Operations.	
	1) Perform Array Functions in PHP 2) Perform File	
14	Operations in PHP 3) Perform Date and Time functions in	
	РНР	
	1) NameSpaces in PHP 2) Class-Object Illustration in PHP	
15	3) Inheritance Illustration in PHP 4) Interface Illustratin in	
	РНР	

Signature of the Faculty in-charge with Date

Experiment to be mapped against Cos & POs

	Course Outcomes	POs related to COs
CO1	Demonstrate Knowledge on HTML, Javascript, Servlet, JSP and PHP to develop an web applications	PO1
CO2	Analyze the Real World problems to be solved by technologies like 7Servlet, JSP and PHP	PO2
CO3	Design and Develop solutions for web applications.	PO3
CO4	Manually Test the functionality of the web application	PO4
CO5	Select appropriate design tools and procedure to implement web applications	PO5
CO6	Follow ethical principles in designing, and implementing various Technologies.	PO8
CO7	Do experiments effectively as an individual and as a member in a group.	PO9
CO8	Communicate verbally and in written form, the understandings about the experiments.	PO10
CO9	Continue updating their skill related to various web technologies like servlet, JSP,PHP for implementating various web applications during their life time	PO12

Sreenivasa Institute Of Technology And Management Studies(Autonomous), Chittoor.

Web Programming Lab Manual

HTML

MCA Department

EXERCISE NO.1 : DESIGNING AN ORDERED LIST IN HTML

Aim: Design the following webpage using and Tags of HTML.

DEPARTMENT OF COMPUTER SCIENCE

1.B.SC COMPUTER SCIENCE 2.M.SC COMPUTER SCIENCE 3. PGDCA

DEPARTMENT OF MATHEMATICS

1.B.SC MATHEMATICS 2. M.SC MATHEMATICS 3. M.PHIL MATHEMATICS

DEPARTMENT OF ZOOLOGY

1. B.SC ZOOLOGY 2.M.SC ZOOLOGY 3.M.PHIL ZOOLOGY 4.PHD ZOOLOGY

Procedure:

- **Step1:** Type the following html code which uses *<*ol> and *<*li> in the Notepad.
- **Step2:** Save the file with .html extension.
- **Step3:** Open the html file in any of the browser like Internet Explorer,Mozilla FireFoxto display the output of webpage

HTML Code

<HTML>

<HEAD>

<TITLE>"ORDER LIST DEMO "></TITLE>

</HEAD>

<BODY>

<H1>

```
<U>DEPARTMENT OF COMPUTER SCIENCE</U>
```

</H1>

<OL TYPE="1">

B.SC COMPUTER SCIENCE

M.SC COMPUTER SCIENCE

PGDCA

<H1>

<U>DEPARTMENT OF MATHEMATICS</U>

</H1>

<OL TYPE="4">

B.SC MATHEMATICS

M.SC MATHEMATICS

M.PHIL MATHEMATICS

<H1>

<U>DEPARTMENT OF ZOOLOGY</U>

</H1>

<OL TYPE="7">

B.SC ZOOLOGY M.SC ZOOLOGY M.PHIL ZOOLOGY

```
<LI>PHD ZOOLOGY</LI>
```


</BODY>

</HTML>

MCA Department



EXERCISE NO. 2: DESIGNING AN UNORDERED LIST USING UL TAG

Aim:-To design the following webpage using and tags of HTML

THE BEST FEATURE OF THE INTERNET
YOU CAN MEET NEW PEOPLE FROM COUNTRIES
AROUND THE WORLD.
• YOU HAVE ACCESS TO NEW MEDIA AS IT BECOME
PUBLIC.
• NEW GAMES
 NEW APPLICATIONS
 FOR BUSINESS
 FOR PLEASURE
 AROUND THE CLOCK NEWS
 SEARCH ENGINES
• SHOPPING
 PROGRAMMING
 HTML
 JAVA
 DYNAMIC HTML
 SCRIPTS
 NEW LANGUAGES
• LINKS
KEEPING IN TOUCH WITH OLD FRIENDS
 IT IS THE TECHNOLOGY AND THE FEATURE.

Procedure:-

- **Step1:** Type the following html code which uses and in the Notepad.
- **Step2:** Save the file with .html extension.
- **Step3:** Open the html file in any of the browser like Internet Explorer, Mozilla FireFoxto display the output of webpage

HTML Code

<HTML>

<BODY> <H3><U>THE BEST FEATURE OF THE INTERNET</U></H3> <UL TYPE="DISC"> YOU CAN MEET NEW PEOPLE FROM COUNTRIES AROUND THE WORLD. YOU HAVE ACCESS TO NEW MEDIA AS IT BECOME PUBLIC. <UL TYPE="CIRCLE"> NEW GAMES NEW APPLICATIONS <UL TYPE="SQUARE"> FOR BUSINESS FOR PLEASURE AROUND THE CLOCK NEWS SEARCH ENGINES SHOPPING PROGRAMMING <UL TYPE="SQUARE"> HTML JAVA DYNAMIC HTML SCRIPTS NEW LANGUAGES

LINKS

KEEPING IN TOUCH WITH OLD FRIENDS IT IS THE TECHNOLOGY AND THE FEATURE.

</BODY>

</HTML>

MCA Department

OUTPUT:



EXERCISE NO. 3: DESIGNING A DEFINITION LIST IN HTML

HTML

Hyper Text Mark Up Language is aa language to Design Static Web page *XML*

Extensible Mark Up Language is a tool to define data for web applications </DD> BEANS

It is a reusable software component that can be visually manipulated by any Builder tool.

SERVLET

It is a Server Side Technology JSP

Its also a Server Side Technology

Aim:-To Design the following Definition List using <DL>, <DT> and <DD> tag of HTML.

Procedure:-

- **Step1:** Type the following html code which uses *<*ol> and *<*li> in the Notepad.
- **Step2:** Save the file with .html extension.
- **Step3:** Open the html file in any of the browser like Internet Explorer, Mozilla FireFoxto display the output of webpage

HTML Code

<HTML>

<HEAD> <TITLE>DEFINITION LIST</TITLE> </HEAD> <BODY BGCOLOR="VIOLET" TEXT="MAROON"> <DL> <DT><I>HTML</I></DT> <DD>Hyper Text Mark Up Language is aa language to Design Static Web page</DD> <DT><I>XML</I></DT> <DD>Extensible Mark Up Language is a tool to define data for web applications </DD> <DT><I>BEANS</I></DT> <DD>It is a reusable software component that can be visually manipulated by any Builder tool.</DD> <DT><I>SERVLET</I></DT> <DD> It is a Server Side Technology</DD> <DT><I>JSP</DT> <DD>Its also a Server Side Technology</DD> </DL> $\langle BODY \rangle$ </HTML>

OUTPUT:

HTML Hyper Text Mark Up Language is aa language to Design Static Web page XML Extensible Mark Up Language is a tool to define data for web applications BEANS It is a reusable software component that can be visually manipulated by any Builder tool. SERVLET It is a Server Side Technology JSP Its also a Server Side Technology	HML Hyper Text Mark Up Language is aa language to Design Static Web page Extensible Mark Up Language is a tool to define data for web applications EANS It is a reusable software component that can be visually manipulated by any Builder tool. ERVLET It is a Server Side Technology SP Its also a Server Side Technology SP wp_lab_manual_fdocx ^ Show all >	← → C ① File C:/Users/chathura/Desktop/sample.htm	ni 🛧 🖸
Hyper Text Mark Up Language is aa language to Design Static Web page KML Extensible Mark Up Language is a tool to define data for web applications BEANS It is a reusable software component that can be visually manipulated by any Builder tool. SERVLET It is a Server Side Technology ISP Its also a Server Side Technology Show all	Hyper Text Mark Up Language is aa language to Design Static Web page ML Extensible Mark Up Language is a tool to define data for web applications EANS It is a reusable software component that can be visually manipulated by any Builder tool. ERVLET It is a Server Side Technology SP Its also a Server Side Technology Mu Mu Mu Mu Mu Mu Mu Mu Mu Mu	HTML	
Extensible Mark Up Language is a tool to define data for web applications BEANS It is a reusable software component that can be visually manipulated by any Builder tool. ERVLET It is a Server Side Technology SP Its also a Server Side Technology Show all	ML Extensible Mark Up Language is a tool to define data for web applications EANS It is a reusable software component that can be visually manipulated by any Builder tool. ERVLET It is a Server Side Technology SP Its also a Server Side Technology Wp_lab_manual_fdocx	Hyper Text Mark Up Language is aa language to Design S	Static Web page
Extensible Mark Up Language is a tool to define data for web applications BEANS It is a reusable software component that can be visually manipulated by any Builder tool. ERVLET It is a Server Side Technology Its also a Server Side Technology SP Wp_lab_manual_fdocx	Extensible Mark Up Language is a tool to define data for web applications EANS It is a reusable software component that can be visually manipulated by any Builder tool. ERVLET It is a Server Side Technology SP Its also a Server Side Technology Wp_lab_manual_fdocx ^ Show all >	KML	
BEANS It is a reusable software component that can be visually manipulated by any Builder tool. SERVLET It is a Server Side Technology SP Its also a Server Side Technology SP Its also a Server Side Technology Show all	EANS It is a reusable software component that can be visually manipulated by any Builder tool. ERVLET It is a Server Side Technology SP Its also a Server Side Technology Its also a Server Side Technology SP Its also a Server Side Technology SP Its also a Server Side Technology SP Show all	Extensible Mark Up Language is a tool to define data for	web applications
It is a reusable software component that can be visually manipulated by any Builder tool. SERVLET It is a Server Side Technology SP Its also a Server Side Technology My lab_manual_fdocx	It is a reusable software component that can be visually manipulated by any Builder tool. ERVLET It is a Server Side Technology SP Its also a Server Side Technology wp_lab_manual_fdocx Show all Show all	BEANS	
It is a Server Side Technology SP Its also a Server Side Technology Its also a Server Side Technology Show all	ERVLET It is a Server Side Technology SP Its also a Server Side Technology Its also a Server Side Technology Show all > Show all	It is a reusable software component that can be visually m	nanipulated by any Builder tool.
It is a Server Side Technology Its also a Server Side Technology wp_lab_manual_fdocx ^	It is a Server Side Technology SP Its also a Server Side Technology wp_lab_manual_fdocx ^ Show all >	SERVLET	
Its also a Server Side Technology wp_lab_manual_fdocx ^	Its also a Server Side Technology wp_lab_manual_fdocx	It is a Server Side Technology	
wp_lab_manual_fdocx ^	Its also a Server Side Lechnology Image: wp_lab_manual_fdocx Show all	ICD	
		ISP Its also a Server Side Technology	
		Its also a Server Side Technology wp_lab_manual_fdocx	Show all
		Its also a Server Side Technology wp_lab_manual_fdocx	Show all
		Its also a Server Side Technology wp_lab_manual_fdocx	Show all

EXERCISE NO. 4 : DESIGNING A HTML TABLE USING COLSPAN ATTRIBUTE

MAR	MARUTHI						
OMNIVAN	200000						
MARUTHI800	242000						
MARUTHI1000	310000						
MARUTHIZEN	390000						
ТАТА							
SUMO	475000						
SIERRA	447000						
ESTATE	462000						
AMBASSADOR							
PETROL	324000						
DIESEL	387000						

Aim:-To Design the following table by using **<Table>** tag and **colspan** attribute.

Procedure:-

- **Step1:** Type the following html code which uses colspan and table tags in Notepad.colspan is used to merge the columns
- **Step2:** Save the file with .html extension.
- **Step3:** Open the html file in any of the browser like Internet Explorer, Mozilla FireFoxto display the output of webpage

HTML Code :		
<html> <body></body></html>		
<table bo<="" td=""><td>RDER=4 WIDTH="40%"></td></table>	RDER=4 WIDTH="40%">	
<tr></tr>		
	<thcolspan=4>MARUTHI</thcolspan=4>	
<th>></th>	>	
<1R>		
	<1D>UMINIVAN 1D <td> 200000 </td>	200000
~/TP	<1D>200000 1D	
<tr< th=""><th>////////////////////////////////////</th></tr<>	////////////////////////////////////	
	<td>MARUTHI 800</td>	MARUTHI 800
	<td>242000</td>	242000
<th>></th>	>	
<tr></tr>		
	<td>MARUTHI 1000</td>	MARUTHI 1000
/////	<td>310000</td>	310000
1R</th <th>></th>	>	
<1K2	· /TD-MARUTHIZEN/TD-	
	<td>390000</td>	390000
<th>></th>	>	
<tr></tr>		
	<thcolspan=2>TATA</thcolspan=2>	
<th>></th>	>	
<tr></tr>		
	<1D>SUMO 1D	
~/TD	<1D>4/5000 1D	
<tr< th=""><th>////////////////////////////////////</th></tr<>	////////////////////////////////////	
	<td>SIERRA</td>	SIERRA
	<td>447000</td>	447000
<tr></tr>		
	<td>ESTATE</td>	ESTATE
	<td>462000</td>	462000
1R</th <th>></th>	>	
<1K>	~ 	
<th>></th>	>	
<tr></tr>		
	<td>PETROL</td>	PETROL
	<td>324000</td>	324000
<th>></th>	>	
<tr></tr>		
	<id>DIESEL</id> <td>287000 //TD></td>	287000 //TD>
~//TR	<1D>30/000 1D	

 || | |
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OUTPUT:

🕙 TA	BLEI	DEMO	- Mozilla	Firefox				
Eile	<u>E</u> dit	<u>V</u> iew	Hi <u>s</u> tory	<u>B</u> ookmarks <u>T</u> ools <u>H</u> elp)			
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÷	>	۲	file:///E:/pa	admaja/wt_outputs/rows 🖞	7 🗸 🕻	🖁 🔻 Google 🔎	+	⋒
				MARUTH	I			
				OMINIVAN	200000			
				MARUTHI 800	242000			
				MARUTHI 1000	310000			
				MARUTHIZEN	390000			
				TATA				
				SUMO	475000			
				SIERRA	447000			
				ESTATE	462000			
				AMBASSAD	OR			
				PETROL	324000			
				DIESEL	387000			

EXERCISE NO. 5: DESIGN A HTML TABLE USING ROWSPAN ATTRIBUTE

Aim:-To Design the following webpage using **tag** and **rowspan attribute**.

CAR		PRICE
	OMNIVAN	200000
	MARUTHI800	242000
MARUTHI	MARUTHI1000	310000
	MARUTHIZEN	390000
	SUMO	475000
TATA	SIERRA	447000
AMBASSADOR	PETROL	324000
	DIESEL	387000

Procedure:-

Step1: Type the following html code which uses **tagand rowspan attribute** in Notepad.Rowspan attribute is used to merge the two or more rows.

Step2:Save the file with .html extension.

Step3:Open the html file in any of the browser like Internet Explorer, Mozilla FireFoxto display

the output of webpage

TABLE TAG and ROWSPAN ATTRIBUTE DEMO:

<HTML>

```
<BODY>
                           <TABLE BORDER=4 ALIGN="CENTER"
                                  WIDTH="60%">
                                  <TRCOLSPAN=2>
                                         <THCOLSPAN=2>CAR</TH>
                                         <TH>PRICE</TH>
                                  \langle TR \rangle
                                  \langle TR \rangle
                                         <TD ROWSPAN=4>MARUTHI</TD>
                                         <TD>OMNIVAN</TD>
                                         <TD>200000</TD>
                                  </TR>
                                  \langle TR \rangle
                                         <TD>MARUTHI 800</TD>
                                         <TD>242000</TD>
                                  </TR>
                                  \langle TR \rangle
                                         <TD>MARUTHI 1000</TD>
                                         <TD>310000</TD>
                                  \langle TR \rangle
                                  \langle TR \rangle
                                         <TD>MARUTHIZEN</TD>
                                         <TD>390000</TD>
                                  </TR>
                                  \langle TR \rangle
                                         <TD ROWSPAN=2>TATA</TD>
                                         <TD>SUMO</TD>
                                         <TD>475000</TD>
                                  </TR>
                                  \langle TR \rangle
                                         <TD>ESTATE</TD>
                                         <TD>462000</TD>
                                  </TR>
                                  \langle TR \rangle
                                         <TD
                                         ROWSPAN=2>AMBASSADOR</TD>
                                         <TD>PETROL</TD>
                                         <TD>324000</TD>
                                  </TR>
                                  \langle TR \rangle
                                         <TD>DIESEL</TD>
                                         <TD>387000</TD>
                                  \langle TR \rangle
                           </TABLE>
                    </BODY>
</HTML>
```

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OUTPUT:

🎒 TABLE	DEMO - Mozilla Firefox				×	
<u>E</u> ile <u>E</u> dit	⊻iew Hi <u>s</u> tory <u>B</u> ookmarks	<u>T</u> ools <u>H</u> elp				
÷	🕘 file:///E:/padmaja/wt_o	utputs/colsp 🏫 🔻 C 🛛 🗧 🗸	Google 🔎	÷	⋒	
	C	AR	PRICE	1		
		OMNIVAN	200000			
	NADITITI	MARUTHI 800	242000			
	MAROINI	MARUTHI 1000	310000			
		MARUTHIZEN	390000			
	ጥለጥለ	SUMO	475000			
		ESTATE	462000			
	AMBASSADOR	PETROL	324000			
	AWIDASSADOK	DIESEL	387000			

EXERCISE NO.6: DESIGN A HTML TABLE TO DISPLAY MCA TIME-TABLE

DAY/TIME	1	2		3	4	L	5	6	7
	9.00AM	9.50AM	Т	10.55AM	11.46AM	U	1.30PM	2.21PM	3.11PM
	То	То	E	То	То	Ν	То	То	То
	9.50AM	10.40AM	Α	11.45AM	12.25AM	С	2.20PM	3.10PM	4.00PM
MON	COOR	PT		DBMS WEB		Η	WEB PROGRAMMING LAB		
TUE	WEB	SE	В	COOR	CN	1	DBMS	CN	WEB
WED	SE	COOR	R	CN DBMS		В	UNIX LAB		
THU	DBMS	WEB	E	COOR	PT	R	COOR	CN	SE
FRI	SE	<- DBMS	Α	LAB ->		E	SE	WEB	DBMS
SAT	CN	WEB	K	SE	DBMS	A	COOR	LIB	CN
						K			

Aim:-To design the following webpage using **<Table> tag** with **rowspan and colspan attribute**.

Procedure:-

- **Step1:** Type the following html code by using , and tags with colspan and rowspan attribute
- **Step2:** Save the file with .html extension.
- **Step3:** Open the html file in any of the browser like Internet Explorer, Mozilla FireFoxto display the output of webpage.

TIMETABLE USING TABLE TAG:

<HTML>

•

<head></head>				
	<iiile>IIME IADLE</iiile>			
<body></body>				
	<table <="" border="5" td="" width="75%"></table>			
	ALIGN="CENTER">			
	<tr></tr>			
	<th>DAY/TIME</th>	DAY/TIME		
	<th>19.00-9.50</th>	19.00-9.50		
	<th>29.50-10.40</th>	29.50-10.40		
	<TH ROWSPAN="7">T $BR>E$			
	$\langle BK \rangle A \langle BK \rangle K \langle BK \rangle \langle TH \rangle$			
	<1H>310.55-11.45 1H			
	<1H>411.43-12.30 1H			
	<IT KOWSPAN- / $>$ L $<$ /DK>U /BB N /BB C /BB H /BB B			
	<pre></pre>			
	<th>51 30-2 20</th>	51 30-2 20		
	<th>62.20-3.10</th>	62.20-3.10		
	<th>73.10-4.00</th>	73.10-4.00		
	<tr></tr>			
	<th>MON</th>	MON		
	<td>.NET</td>	.NET		
	<td>MIS</td>	MIS		
	<td>DS</td>	DS		
	<td>DWM</td>	DWM		
	<td>MIS</td>	MIS		
	<td>LIBRARY</td>	LIBRARY		
	<1D>W1 1D			
	1K			
	<1K> _TH\THF_/TH\			
	<td>MIS</td>	MIS		
	<td>></td>	>		
	$\langle TD \rangle \langle TD \rangle$ $\langle TD COLSPAN = 2 ALIGN = "CENTER" >$			
	WT LAB			
	<td>.NET</td>	.NET		
	<td>WT</td>	WT		
	<td>DWM</td>	DWM		
	<tr></tr>			
	<th>WED</th>	WED		
	<td>.NET</td>	.NET		

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	<td>WT</td>	WT		
	<td>DS</td>	DS		
	<td>INTERNET</td>	INTERNET		
	<td>WT</td>	WT		
	<td>DWM</td>	DWM		
	<td>MIS</td>	MIS		
<	/TR>			
<	TR>			
	<th>THUR</th>	THUR		
	<td>WT</td>	WT		
	<td>DWM</td>	DWM		
	<td>DS</td>	DS		
	<td>DWM</td>	DWM		
	<td align="CENTER" colspan="3"></td>			
	DWM LAB			
<	/TR>			
<	TR>			
	<th>FRI</th>	FRI		
	<td>DS</td>	DS		
	<td>.NET</td>	.NET		
	<td>WT</td>	WT		
	<td>SEMINAR</td>	SEMINAR		
	<td>DS</td>	DS		
	<td>MIS</td>	MIS		
	<td>.NET</td>	.NET		
<	/TR>			
<	TR>			
	<th>SAT</th>	SAT		
	<td colspan="3">WT/DWM LAB</td>	WT/DWM LAB		
	<td><</td>	<		
	<td>DS</td>	DS		
	<td>MIS</td>	MIS		
	<td>.NET</td>	.NET		
	<td>DWM</td>	DWM		
<	/TR>			
</td <td>TABLE></td>	TABLE>			
</td <td>BODY></td>	BODY>			

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OUTPUT:

🍯 Time table - Mic	rosoft Inte	ernet Explo	rer									- D X
File Edit View	Favorites	Tools He	lp									1
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Address 🖉 \\10.10.80.80\mca\Padmaja\wt\execution of wt\6.html												
, .												<u> </u>
		4	2		2	4		6	6	7	1	
	Day/Time	9.00-9.50	ے 9.50-10.40	T	י 10.55-11.45	4 11.45-12.30	L U	5 1.30-2.20	0 2.20-3.10	7 3.10-4.00		
	MON	.Net	MIS	E A B	DS	DWM	N C H	MIS	LIBRARY	WT		
	TUE	MIS	>		WT	LAB		.NET	WT	DWM		
	WED	.NET	WT	R	DS	INTERNET	B	WT	DWM	MIS		
	THUR	K WT DWM		EC	DS	DWM	R	DWM LAB				
	FRI	DS	.NET	ĸ	WT	SEMINAR	A	DS	MIS	.NET		
	SAT	WT/DWM I	LAB		<	DS	K	MIS	.NET	DVVM		
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EXERCISE NO. 7: DESIGNING SET OF FRAMES IN HTML

Aim:-To design the following webpage using <frameset> , <frame> tags in html code.

 HTML is a Markup language for describing web documents HTML stands for Hyper Text Markup Language A Markup Language is a set of Markup tags HTML is a universal documentation Language HTML is a commonly used language for designing static web page 	 What is XML ? XML stands for Extensible Markup Language XML was designed to describe data, not to display data XML tags are not predefined DTD and XSD are the languages to define XML document schema 						
What is Java Bean ?	What is Servlets ?	What is JSP ?					
Java Bean is a reusable software component which can be visually manipulated by any buider tools.	Java Servlets are programs that run on a Web or Application server and act as a middle layer between a request coming from a Web browser or other HTTP client and databases or applications on the HTTP server.	JavaServer Pages (JSP) is a technology for developing web pages that support dynamic content which helps developers insert java code in HTML pages by making use of special JSP tags, most of which start with <% and end with %>.					

Procedure:-

Step1: Type the following html code by using <frameset> and <frame> tags

Step2: Save the file with .html extension.

Step3: Open the html file in any of the browser like Internet Explorer, Mozilla FireFoxto display the output of webpage

FRAMESET AND FRAME TAG ILLUSTRATION:

FramesetDemo.html

```
<html>
    <head>
         <title> Frames demo</title>
    </head>
    <frameset rows = "50%, 50%">
         <frameset cols = "50%,50%">
                 <frame name = "html" src = "html.html"/>
                 <frame name = "xml" src = "xml.html"/>
         </frameset>
         <frameset cols = "40%, 30%, 30%">
                 <frame name = "bean" src = "bean.html"/>
                 <frame name = "jsp" src = "jsp.html"/>
                 <frame name = "servlet" src = "servlet.html"/>
         </frameset>
    </frameset>
</html>
```

html.html

```
<html>
<head>
<title>FrameDemo</title>
</head>
<body>
<h3>HTML is a <b>Markup</b> language for describing web documents</h3>
HTML stands for Hyper Text Markup Language
HTML stands for Hyper Text Markup Language
A Markup Language is a set of Markup tags
HTML is a universal documentation Language
HTML is a commonly used language for designing static web page
```

xml.html

```
<html>
<head>
<title>FrameDemo</title>
</head>
<body>
<h3><b>What is XML ?</b></h3>
XML stands for Extensible Markup Language
XML was designed to describe data, not to display data
XML tags are not predefined 
DTD and XSD are the languages to define XML document schema
</wd>
```

<u>bean.html</u>

```
<html>
<html>
<head>
<tittle>FrameDemo</title>
</head>
</head>
<body>
<htp><htp><body>
<htp><body>
Java Bean is a reusable software component
which can be visually manipulated by any buider tools.

</html>
```

Servlet.html

```
<html>
       <head>
               <title>FrameDemo</title>
       </head>
       <body>
               <h2><b>What is Servlets ?</b></h2>
                       Java Servlets are programs that run on a Web or Application
                                             and act as a middle layer between a request coming
                                    server
                                    from a Web browser or other HTTP client and databases or applications on the
                                    HTTP server.
                      </body>
     </html>
isp.html
       <html>
               <head>
                      <title>FrameDemo</title>
               </head>
               <body>
                      <h2><b>What is JSP ?</b></h2>
                              JavaServer Pages (JSP) is a technology for developing web
                                     pages that support dynamic content which helps developers
                                     insert java code in HTML pages by making use of special
                                     JSP tags, most of which start with <% and end with %>.
                              </body>
       </html>
```


EXE	RCISE NO. 8: DES	IGN A BIO-DATA FORM	USING HTML CODE
o design the fol	llowing webpage usin	ng <form> and <input/> t</form>	ags in html code.
NAME			
D.O.B			
RELIGION			
	STREET		
	TOWN		
ADDRESS	IUWN		
	DIST		
	STATE		
PHONE	OFFICE		
	RESIDANCE		
EDUCATION	NAL QUALIFICAT	ION	
DEGREE	UNIVERSITY	MONTH&YEAR	GRADE/MARKS
1			
2			
3			
4			
3 4			

Step1: Open the notepad and type the following html code by using <form> and <input> tags

Step2: Save the file with .html extension.

Step3: Open the html file in any browser to view the results.

BIODATA FORM USING FORM TAG:

<HTML>

<HEAD> <TITLE>BIODATA</TITLE> </HEAD> <BODY> <FORM NAME="BIODATA" METHOD="POST"> <H2 ALIGN=CENTER>BIODATA</H2> <TABLE ALIGN=CENTER WIDTH="30%"> $\langle TR \rangle$ <TH>NAME</TH> <TD COLSPAN="5"><INPUT TYPE="TEXT" S IZE=70> </TR> $\langle TR \rangle$ <TH>D.O.B</TH> <TD COLSPAN="5"><INPUT TYPE="TEXT" SIZE=70> </TR> $\langle TR \rangle$ <TH>RELIGION</TH> <TD COLSPAN="5"><INPUT TYPE="TEXT" SIZE=70> $\langle TR \rangle$ $\langle TR \rangle$ <TH ROWSPAN="5">ADDRESS</TH> $\langle TR \rangle$ $\langle TR \rangle$ <TD>STREET</TD> <TD COLSPAN="4"><INPUT TYPE="TEXT" SIZE=50> </TR> $\langle TR \rangle$ <TD>TOWN</TD> <TD COLSPAN="4"><INPUT TYPE="TEXT" SIZE=50> </TR> $\langle TR \rangle$ <TD>DIST</TD> <TD COLSPAN="4"><INPUT TYPE="TEXT" SIZE=50> $\langle TR \rangle$ $\langle TR \rangle$ <TD>STATE</TD> <TD COLSPAN="4"><INPUT TYPE="TEXT" SIZE=50> $\langle TR \rangle$ $\langle TR \rangle$ <TH ROWSPAN="2">PHONE</TH> <TD>OFFICE</TD> <TD COLSPAN="4"><INPUT TYPE="TEXT" SIZE=50> </TR> $\langle TR \rangle$ <TD>RESIDANCE</TD> <TD COLSPAN="4"><INPUT TYPE="TEXT" SIZE=50> </TR>

<tr></tr>						
<th colspan="6">EDUCATIONAL QUALIFICATION</th>	EDUCATIONAL QUALIFICATION					
<tr></tr>						
<th>DEGREE</th>	DEGREE					
<th>UNIVERSITY</th>	UNIVERSITY					
<th>MONTH&YEAR</th>	MONTH&YEAR					
<th>GRADE/MARKS</th>	GRADE/MARKS					
<tr></tr>						
<th>1</th>	1					
<td colspan="4"><input size="70" type="TEXT"/></td>	<input size="70" type="TEXT"/>					
<tr></tr>						
<th>2</th>	2					
<td colspan="4"><input size="70" type="TEXT"/></td>	<input size="70" type="TEXT"/>					
<tr></tr>						
<th>3</th>	3					
<td colspan="4"><input size="70" type="TEXT"/></td>	<input size="70" type="TEXT"/>					
<tr></tr>						
<th>4</th>	4					
<td colspan="4"><input size="70" type="TEXT"/></td>	<input size="70" type="TEXT"/>					
<tr></tr>						
<th>5</th>	5					
<td colspan="4"><input size="70" type="TEXT"/></td>	<input size="70" type="TEXT"/>					

| |
| |
| |
</HTML>

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OUTPUT:					
1	biodata - Mi	crosoft Internet Explo	rer	_	
, F	ile Edit Vie	ew Favorites Tools	Help		2
	🔵 Back 👻 🌔	🔊 - 💌 😰 🏠	🔎 Search 🤸 Favorites 🧭	🛛 🖂 • 🎽 🖉 •) »
Ac	dress 🧧 C:\	Documents and Settings\s	itams.INTERNET12.000\Desktop\biodata.l	html 🔽 🄁 Go 🛛	Links »
			biodata		
1	NAME				
	DOB				
	RELIGION				
		street			
		town	I		
	ADDRESS	dist			ł
		state			
		office			
	PHONE	residance	,		
		E	UCATIONAL QUALIFICATION		
	degree	university	month&year	grade/marks	
	1	<u> </u>			
	2				
	3				
	4				
	5				
					V
E	Done		/u /	📔 🚽 My Computer	111
					Mrs. P. Padmaia

EXERCISE NO. 9: CASCADING STYLE SHEET ILLUSTRATION

Aim:-To illustrate the cascading Stylesheets

Procedure:-

1. USE OF DIFFERENT FONT STYLE AND COLORS

step1:-Write an external CSS file called test.css which consists the new styles for h1, h2 and p tags

Step2:-Save the file with .css extension.

Step3:-Write an html code that links with the external CSS file and save it with .html extension

Step4:-Open html in any browser like fire fox, explorer to view the new styles of <h1>,<h2> and tags

2. SETTING BACKGROUND IMAGE.

Step1:-write an internal CSS for Body tag ,the CSS should include the background image of the web page

Step3:- Save the file with .html extension.

Step5:-Open the html file if any of the browser for viewing the results.

3. DEFINING STYLES FOR LINKS

step1:-write the html code which consists of 'link' h1,h2 and p.

Step2:-write the styles in test.css document.

Step3:-save the .html file extension.

Step4:- open the html file if any of the browser for results.

4. WORKING WITH LAYERS

Step1:-write an external CSS file , which includes different colors at different states of anchor tag

Step2:-save the file with .css extension

Step3:- write an html file that links the .CSS file and save the html file with .html or .htm extension

Step4:- open the html file in any browser to view output.

5. CUSTOMIZED CURSOR

Step1:-write an internal CSS for cursor styles with anonymous class

Step2:-Save the file with .html extension

Step3:-Open html file using any browser to view output.

CASCADING STYLE SHEET ILLUSTRATIONS:

<u>Task 9.1</u>

<!----USE OF DIFFERENT FONT, STYLES AND COLORS \rightarrow

<html>

<u>Test.css</u> h1{color:red;font-size:22px;font-family:arial;text-decoration:underline} h2{color:blue;font-size:16px} p{font-family:arial;font-size:30px} <u>OUTPUT</u>



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Task 9.2

<!--SETTING BACKGROUND IMAGE ..>

```
<html>
```

```
<head>
              <style type="text/css">
              body
              {
                     background-image:url("winter.jpg");
                     background-repeat:no-repeat
              }
              h1
              {
                     color:white;
                     font-size:35px;
              }
              </style>
       </head>
       <body>
              <center><h1>Life is beautiful!!!</h1></center>
       </body>
</html>
```

OUTPUT



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<u>Task 9.3</u>

<!--DEFINING STYLES FOR LINKS..>

```
<html>
```

test4.css

body{background-color:pink}
h1{color:black;font-size:22px}
p{font-size:12}
a:link{color:blue}
a:visited{color:purple}
a.hover{color:red;text-decoration:underline}
a.active{color:green}



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<u>Task 9.4</u>

<!-- WORKING WITH LAYERS ..>

```
<html>
```

<head> <title>Layers Demo</title> </head> <body> <div style="position:relative; font-size:50px; left:50; top:10; Background-color:red; z-index:1;">Layer1</div> <div style="position:relative; font-size:50px; left:150; top:3; Background-color:green; z-index:2;">Layer2</div> <div style="position:relative; font-size:50px; left:200; top:-5; Background-color:blue; z-index:3;">Layer2</div> </body>

</body/ </html> OUTPUT



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<u>Task 9.5</u>

<!-- CUSTOMIZED CURSOR ..>

```
<html>
```

<head> <title>Cursor demo</title> <style type="text/css"> .link1{cursor:default} .link2{cursor:crosshair} .link3{cursor:hand} .link4{cursor:move} .link5{cursor:text} .link6{cursor:wait} .link7{cursor:help} .link8{cursor:n-resize} .link9{cursor:s-resize} .link10{cursor:e-resize} .link11{cursor:w-resize} .link12{cursor:progress} .link13{cursor:not-allowed} .link14{cursor:no-drop} .link15{cursor:all-scroll} </style> </head> <body> default cursor
 crosshair cursor
 hand cursor
 move cursor
 text cursor
 wait cursor
 help cursor
 n-resize cursor
 s-resize cursor
 e-resize cursor
 w-resize cursor
 progress cursor
 not-allowed cursor
 no-drop cursor
 all-scroll cursor
 </body> </html>



EXERCISE NO. 10: DESIGNING AONLINE BOOK STORE

Aim:-To design the following static webpage required for an online book store website.

1. HOME PAGE:

The static home page must contain 3 frames

Top frame: logo and the college name and links to home page , login page, registration page, catalogue page and cart page [the description of these pages will be given below]

Left frame: Atleast 4 links for navigation, which will display the catalogue of respective links.

Example: when you click the links cse the catalogue for cse books should be displayed in right frame.

Right frame: The pages to the links in the left name frame must be loaded here initially this page contains description of the website.

LOGO	WEBSITE NAME						
HOME	LOGIN	REGISTRATION	CATALOGUE	CART			
CSE							
ECE		Description of	the website				
EEE							
CIVIL							

2. LOGIN PAGE:

This page looks like below.

LOGO	WEBSITE NAME						
HOME	LOGIN	REGISTRATION	CATALOGUE	CART			
CSE ECE EEE CIVIL	LOGIN PASSWORD	submit Reset					

3. CATALOGUE PAGE:

The catalogue page should contain the details of all books available in website in the table the details should contain following.

1. snapshot of coverpage

- 2. Author name
- 3. publisher
- 4. price
- 5.Add to cart Button

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Procedure:-

1. Write the html code for designing the following table and name it as Menu.html.

С	WEBSITE NAME						
HOME	LOGIN	REGISTRATION	CATALOGUE	CART			

2. Write an html code that displays the courses and solve it as course.html

CSE	
ECE	
EEE	

3. Write other html code which describes about the website and name it as desc.html



4. Write another html code to display the following login page and save it as login.html



5. Divide the screen into horizontal frame i.e 30%,70% as shown below and name them as top frame and bottom frame.



- 6. Load menu.html in the first frame called top-frame
- 7. Divide bottom frame into 2 vertical frames and name them as bottom left and right ass shown below
- 8. Load courses.html in bottom left frame as
- 9. Load description.html in bottom right frame when home option is clicked as
- 10.Load login.html in bottom right frame when login option is clicked as
- 11. Load catalogue.html in bottom right frame when catalogue option is clicked as

<u>courses.html</u>

<html>

```
<head>
<title>Home Details</title>
</head>
<body bgcolor="#fedcba">
<body bgcolor="#fedcba"</body bgcolor="#fedcba">
<body bgcolor="#fedcba"</body bgcolor="#fedcba">
<body bgcolor="#fedcba"</body bgcolor="#fedcba"</body bgcolor="#fedcba"</body bgcolor="#fedcba"</bdody bgcolor="#fedcba"</body bgcolor="#fedc
```



menu.html

```
<html>
   <head>
        <title>Login</title>
    </head>
   <body bgcolor="#abdd0d">
       \langle tr \rangle
          <imgsrc="3.jpg" width=90 height=50>
          <thcolspan="5">Website Name
        Home
           <a href="Login.html" target="Bottom Right">Login</a>
           <a href="Registration.html" target="Bottom"
               Right">Registration</a>
           ="Catalogue.html" target="Bottom"
               Right">Catalogue</a>
           Cart
        </body>
</html>
```

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<u>Frames.html</u>

<html>

```
<head>
<title>Page Frame</title>
</head>
<frameset rows=''20%,80%''>
<frame src=''menu.html'' name=''Top''>
<frame src=''20%,80%''>
<frameset cols=''20%,80%''>
<frame src=''Courses.html'' name=''Bottom Left''>
<frame src=''Description.html'' name=''Bottom Right''>
</frameset>
```

</html>

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LOGIN.HTML

```
<html>
  <head>
    <title>Login</title>
  </head>
  <body bgcolor="#089459">
   <form name="login" Action:\cgi-bin\mycgi-pl"
                                   method="post">
     Name
          <input type="text" name="tname">
        Password
          <input type="Password" name="pass">
        <input type="Submit"
                  name="Submit"
          <input type="Reset" name="Reset" value="Reset">
        </form>
  </body>
</html>
```



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JAVA SCRIPT

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EXERCISE NO. 11: DESIGNING A REGISTRATION FORM WITH VALIDATION

Aim:-To create a registration form with following fields

- 1. Name(Text field)
- 2. Password(Password field)
- 3. E-mail(Text field)
- 4. Phone number(Text field)
- 5. Gender(radio button)
- 6. Date of Birth(3 select boxes)
- 7. Languages known(check boxes)
- 8. Address(text area)

Add validate the following fields of above page.

- 1. Name (Name should contains alphabets and length should not be less than 6 characters)
- 2. Pass word (pass word should not be less than 6 characters length)
- 3. Email-id(should not contain any invalid and must follow the standard pattern name@domain.com)
- 4. Phone number(Phone number should not contain 10 digits only).

Procedure:-

- 1. Open the html and head tag.
- 2. In the <script>write validation function for name, password, email-id, Phone number etc.
- 3. Each validation function
 - i). write a Regular expression corresponding to that function
 - ii). Compare the entered data with the regular expression
 - iii) if both are not match print error message else send data to the destination.
- 4. Close the <script> and <head> and open <body>
- 5. Use the <from>,<input> to display the above specified fields.
- 6. In the <input> call the corresponding validation fields using events.
- 7. Close <body> and <html>
- 8. Save the file with .html extension
- 9. Open the html file any browser to view the contents of registration form.

REGISTRATION FORM (with validation):

Registration.html

```
<html>
```

```
<head>
        <script>
            function name_validate()
            var name=document.forms[0].elements[0].value;
            name_re=/[A-Z][A-Za-z]{6}, /g;
            if(!name.match(name re))
            alert("please enter valid name");
             }
            function pwd_validate()
            var passwd=document.forms[0].elements[1].value;
            pwd = /^[A-Z] \setminus w{6,}/g;
            if(!passwd.match(pwd))
            alert("please enter valid password");
            function mail_validate()
            email=document.forms[0].elements[2].value;
            email reg=/^[A-Za-z][A-Za-z0-9]+@[A-Za-z0-9,.-]+\.[a-zA-Z]{3}/;
            if(!email.match(email_reg))
            alert("please enter valid mail id");
             }
            function ph_validate()
            phone=document.forms[0].elements[3].value;
            ph_re=/d{10}/;
            if(!phone.match(ph_re))
            alert("please enter valid phone number");
             }
        </script>
</head>
<body bgcolor="pink">
   <form method="post">
        <h2 align="center">Registration Form</h2>
        Name
                   input type="text" name="uname"
                         onBlur="name_validate()">
                   Password
```

MCA Department

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	<input <="" name="pwd" th="" type="password"/>
	onBlur="pwd_validate()">
	Email_ID
	<input <="" name="eml" th="" type="text"/>
	onBlur="mail_validate()">
	Phone Number
	<input <="" name="pno" th="" type="text"/>
	onBlur="ph_validate()">
	Gender
	<input name="gender" type="radio"/> Female
	<input <="" th="" type="radio"/>
,	name="gender">Male
	DOB
	Date
	<option>1</option>
	<option>2</option>
	<option>3</option>
	<option>4</option>
	<option>5</option>
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	<option>may</option>
	<option>jun</option>
	<pre><option>jul</option></pre>
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	/td>/td>/td>
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Web Programming Lab Manual

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EXERCISE NO. 12: STRING MANIPULATION FUNCTION IN JAVA SCRIPT

Aim:-To Perform String Manipulations in Java Script

Procedure:-

Step1:-Take one or more strings and perform the following function on string.

- 1. Char at(index): Returns the character which is at position specified in index.
- 2. Concat ("string", ["string"]]): concates the string which are passed as parameter.
- **3.** Index of("search",[offset]):String is searched for the string in 1st parameter.
- **4. Last indexof("search",[offset]):**It works at exactly as some thing of index of but work in backwards along the string offset works exactly as that of index of.
- 5. Length: Returns no.of characters in the string.
- **6. Split(seperatior[limit]):**this function breaks the string whenever it counters the character passed in a 1 st parameter the 2nd parameter which is an integer value indicates how many pieces are stored in array.
- 7. Substr(index,[length]): this function returns the substring which starts at the character indicated at the index. The substring continuous either indicated by a length parameter.
- **8.** Substring (index1,[index2]): This function returns the substring which starts at the character indicated at the index1 to end of index2.
- 9. To lowercase(): This function converts the string case from upper case.
- **10.** To upper case():This function converts the string from lower to upper case.

```
JAVASCRIPT STRING MANIPULATION FUNCTIONS:
<html>
   <head>
       <title>String Manipulation</title>
   </head>
   <body text="red">
       <h2 align="center"><u>Javascript Array Fucntions</u></h2>
       <script>
            var str=prompt("Enetr the string1");
            var str2=prompt("Enetr the string2");
            var str3=prompt("Enter the string3");
            var pos=prompt("Enter the position u want to display in string1 ");
            var res=str.charAt(pos);
            document.writeln("<br/>"+"In string "+str+" position "+pos+"
                     is:"+"<b>"+res+"</b>");
            document.writeln("AfterConcatination:"+"<b>"+str.concat(str2,str3)+"</
              b>");
            var i=str2.indexOf("1");
            document.writeln("<br>Index of l in "+str2+" is:<b>"+i+"</b>");
            document.writeln("<br>Length of "+str3+" is:<b>"+str3.length+"</b>");
            var st=str.concat(str2,str3);
            document.writeln("<br>Substring of (1,3)"+str3+"
                                   is:<b>"+str3.substr(1,3)+"</b>");
            document.writeln("<br>Last index of e in "+st+"
                                 is:<b>"+st.lastIndexOf("e")+"</b>");
            document.writeln("<br>After spliting:");
            var stt=st.split(" ");
            for(var i=0;i<stt.length;i++)</pre>
            document.writeln("<br><b>"+stt[i]+"</b>");
            document.writeln("<br>After converting in
                               uppercase:<b>"+st.toUpperCase()+"</b>");
            document.writeln("<br>After converting in
                    lowercase:<b>"+st.toLowerCase()+"</b>");
       </script>
       </body>
</html>
```

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Javascript Array Fucntions			
In string Javascript is a position 3 is:a After concatination:Javascript is a Clientside Programming Language Index of 1 in Clientside is:1 Length of Programming Language is:20 Substring of (1,3)Programming Language is:rog Last index of e in Javascript is a Clientside Programming Language is:46 After spliting: Javascript			
is a Clientside Programming Language After converting in uppercase:JAVASCRIPT IS A CLIENTSIDE PROGRAMMING LANGUAGE After converting in lowercase:javascript is a clientside programming language			
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EXERCISE NO. 13: MATHEMATICAL FUNCTION IN JAVA SCRIPT

Aim:- To Perform Java Script Mathematical Functions

Procedure:-

- Step1:- Take one or more numeric values and then perform the following function on the numeric values.
 - 1. abs:Returns absolute value of -ve to +ve numbers

Syntax:abs(value)

- ceil: Returns the smallest integer which is greater than or equal to value passed in Syntax: ceil(value).
- **3.** Floor: Returns the largest integer which is smaller than or equal to number passed in **Syntax:** floor(value)
- 4. Max:Returns the largest value of its argumentsSyntax:max(value1, value2)
- 5. Min: Returns the smallest value of its argumentsSyntax: min(value1, value2)
- 6. Pow: Returns the result raising value of power.Syntax: pow(value, power)
- 7. Round: Returns the value of rounding its argument to the nearest integerSyntax: round(value)
- 8. Sqrt: Returns the square root of valueSyntax: sqrt(value)

Step2:Save file with .html extension.

Step3:Open the html file in any of the browser to view the output of the webpage.

JAVASCRIPT MATHEMATICAL FUNCTIONS:

```
<html>
```

<body>

<center>

<h2><u>Mathematical Functions</u></h2>

<script>

document.writeln("
"+"Floor:"+Math.floor(3422.74)); document.writeln(""+"Ceil:"+Math.ceil(344.45)); document.writeln(""+"Round:"+Math.round(7364.87)); document.writeln(""+"Absolute:"+Math.abs(-8346)); document.writeln(""+"Power:"+Math.pow(3,6)); document.writeln(""+"Square root:"+Math.sqrt(246)); document.writeln(""+"Maximum:"+Math.max(74,87)); document.writeln(""+"Minimum:"+Math.min(345,958)); document.writeln(""+"Log:"+Math.log(7)); var res=parseInt(1010,2); document.writeln(""+"String to Integer:"+res); var res1=isNaN() document.writeln(res1);

</script>

</center>

</body>

</html>

Sreenivasa Institute Of Technology And Management Studies(Autonomous), Chittoor. Web Programming Lab Manual **OUTPUT:** 🚰 C:\Documents and Settings\09mca40.SITAMS2DOMA... 🔳 🗖 🔀 File Edit View Favorites Tools Help » 💈 🏠 🔎 Search 👷 Favorites 🕒 Back 💌 Θ × Address 🙋 C:\Documents and Settings\09mca40.SITAMS2D 🕶 ラ Go 🛛 Links 🌺 **Mathematical Functions** Floor:3422 Ceil:345 Round: 7365 Absolute:8346 Power:729 Square root:15.684387141358122 Maximum:87 Minimum:345 Log:1.9459101490553132 String to Integer:10 true 🛃 My Computer ど Done

EXERCISE NO. 14: ARRAY FUNCTIONS IN JAVA SCRIPT

Aim:-To Illustrate Java Script Array Functions

Procedure:-

Step1: Take one or more numeric values and perform the following on string.

- 1. Concat(array2[,array][,array n])): A list of array is concatenated on the end of array
- 2. And a new array is returned. Syntax: var first=[1,2,3]; var second =[1,2,3]; var third =first concat (second,third);
- Join(string): Array elements are join to gether as string it does not need looping statement to view array elements.
 Syntax: var first =[1,2,3]; var res =first join(",");
- 4. Pop(): This function removes last element from the array. Syntax: var first =[1,2,3]; var res =first.pop();
- 5. Push(element1[,element2[,element n]]):Add a list of elements at the end of the array. Syntax:var first =[1,2]; var res =first.push(4,5,9);
- 6. Reverse(): This function swaps all elements in the array. So that was last in first vicevarsa. Syntax:reverse();
- 7. Shift(): Removes the first element in the array.Syntax: shift();
- 8. Slice():The slice function extract a range of element from a array. Syntax: slice(start[, finish]);
- 9. Sort(): To sort the array elements. Syntax:sort()
- 10. Unshift(): To insert the element at the beginning of array. Syntax: unshift(element1[,element2[,element n]]);
- **11. Splice**():This function alters an array by removing some elements x at the same time same element.

Syntax:splice(index,number[element1[,element2[,element n]]]);

Step2: Save file with .html extension.

Step3:open the html file using any browser to view the output of the webpage.

JAVASCRIPT ARRAY FUNCTIONS:

```
<html>
   <head>
       <title>Array functions demo</title>
   </head>
   <body>
      <h3 align = "center" > Illustration of Array Functions </h3>
      <script>
          //concat function: combines array elements
              var first=[1,2,3];
              var second=[4,5,6];
              var third=[7,8];
              var res=first.concat(second,third);
              document.writeln("<br/>''+"First Array Elements are : "
                            +first.join(","));
              document.writeln("Second Array Elements are : "
                            +second.join(","));
              document.writeln("Third Array Elements are : "
                            +third.join(","));
              document.writeln("After concatenating the array elements are:");
              for(var i = 0;i <res.length;i++)</pre>
                 document.write(res[i]);
          //Join function: combines array elements as string
              var a=[1,2,3,4,5,6,7,8,9];
              var str=a.join(":");
              document.writeln("<br/>br/>"+"Array elements as
                     a string:"+str)://1:2:3:4:5:6:7:8:9
          //pop function:Delete elements at the end of array
              a.pop();
              var str1=a.join(":");
              document.writeln("The Array Elements after
                     poping an Element:" + str1);//1:2:3:4:5:6:7:8
          //push functon: Inserts an element at the end of array
              a.push(-1,0);
              var str2=a.join(":");
              document.writeln("The Array Elements after
                     pushing elements:" +str2);//-1:0:1:2:3:4:5:6:7:8
          //reverse function: reverse the array
              a.reverse():
              var str3=a.join(":");
              document.writeln("The Array Elements in Reverse
                            Order is:"+str3);//8:7:6:5:4:3:2:1:0:-1
          //shift function: Remove an element at the front of array
              a.shift();
              var str4=a.join(":");
              document.writeln("The array after shift function
                     is:"+str4);//7:6:5:4:3:2:0:-1
          //unshift function: Insert an element at the front of array
```

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```
a.unshift(9);
        var str5=a.join(":");
        document.writeln("The Array Elements after
                      unshift is:"+str5);//9:7:6:5:4:3:2:1:0:-1
     //slice function: Extract elements
               var b=a.slice(2,4);
               var str6=b.join(";");
               document.writeln("The Array Elements after slice
                      function is:"+str6);//9:7:4:3:2:1:0:-1
     //sort function:sort elements in dictionary order
               a.sort();
               var str7=a.join(":");
               document.writeln("The Array Elements after
                      sorting:"+str7);//-1:0:1:2:3:4:7:9
     //splice function:insert elements into at specified position
               a.splice(5,10);
               var str8=a.join(":");
               document.writeln("The Array elements after splice
                      function is:"+str8);
        </script>
 </body>
```

</html>

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First Array Elements are : 1,2,3 Second Array Elements are : 4,5,6 Third Array Elements are : 7,8 After concatenating the array elements are: 12345678 Array elements as astring:1:2:3:4:5:6:7:8:9 The Array Elements after poping an Element:1:2:3:4:5:6:7:8 The Array Elements after pushing elements:1:2:3:4:5:6:7:8:-1:0 The Array Elements in Reverse Order is:0:-1:8:7:6:5:4:3:2:1 The array after shift function is:-1:8:7:6:5:4:3:2:1 The Array Elements after unshift is:9:-1:8:7:6:5:4:3:2:1 The Array Elements after slice function is:8;7 The Array Elements after splice function is:-1:1:2:3:4	
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EXERCISE NO. 15: FACTORIAL (NON-RECURSIVE)

Aim: To compute factorial value using non-Recursive Function in java script.

Procedure:-

Step1:Define factorial function to compute factorial value in script tag of head section.

Step2:Read n in script tag of body section compute factorial of n by invoking the factorial function.

Step3:Print the factorial value.

FINDING FACTORIAL using JAVASCRIPT FUNCTIONS:

<html>

```
<head>
             <title>Ncr</title>
             <script>
                    function fact(k)
                    {
                           f=1;
                           for(var i=1;i<=k;i++)</pre>
                           f=f*i;
                           return f;
                    }
             </script>
      </head>
      <body>
             <center>
             <h3><u>Factorial without Recursion</u></h3>
             <script>
                    var n = prompt("enter n value");
                    var res = fact(n);
                    document.writeln("Factorial of " +n+ " is " +res);
             </script>
             </center>
      </body>
</html>
```
OUTPUT:





EXERCISE NO. 16 : FACTORIAL USING RECURSIVE FUNCTION

Aim: To compute factorial value using Recursive function in java script.

Procedure:-

Step1: Define a factorial function to compute the factorial of a value

Step2:Read n by invoke the factorial function.

Step3: print the factorial value.

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COMPUTING FACTORIAL using RECURSIVE FUNCTION: <html> <head> <title>Ncr</title>

```
<script>
             function fact(k)
             {
                    if (k==1)
                           return 1;
                    else
                           fact = fact(k-1)*k;
                    return fact;
      </script>
</head>
<body>
      <center>
      <h3><u>Factorial Using Recursion</u></h3>
      <script>
             var n = prompt("enter n value");
             var res = fact(n);
             document.writeln("Factorial of " +n+ " is " +res);
      </script>
      </center>
</body>
```

</html>

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EXERCISE NO. 17 : JAVA SCRIPT PROGRAM TO COMPUTER NCR

Aim: To compute Nc_r value using Java Ccript.

Procedure:-

Step1: Define a function to compute the factorial of k value.

Step2: Read n, r value in script tag of body section.

Step3:Compute Nc_r=factorial(n)/(factorial(r)*factorial(n-r)) using factorial function.

Step4: Print value of Nc_r.

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COMPUTING NCr using RECURSIVE FUNCTION:

```
<html>
   <head>
       <title>Ncr</title>
       <script>
                     function fact(k)
                     {
                            f=1;
                            for(var i=1;i<=k;i++)
                            f=f*i;
                            return f;
                     }
       </script>
   </head>
   <body>
       <center>
       <h1><u>NCR Computation</u></h2>
       <script>
          var n=prompt("enter n value");
          var r=prompt("enter r value");
          varfact_n=fact(n);
          varfact_r=fact(r);
          varfact_nr=fact(n-r);
          var res=fact_n/(fact_r*fact_nr);
          document.writeln(n+"c"+r+" value is:"+res);
       </script>
   </body>
</html>
```

OUTPUT:

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EXERCISE NO. 18 : USER DEFINED OBJECT IN JAVA SCRIPT (CIRCLE)

Aim:To create a customized object in java script.

Procedure:-

Step1: Declare the object by using an object function in script tag head section.

Step2: Add properties to the newly created objects.

Step3: Add method to the newly created objects.

Step4: Instantiated the newly created object by using new keyword in script tag of body section.

Step5: Access and print the properties and methods of newly created objects.

USER DEFINED OBJECT IN JAVASCRIPT

```
<html>
```

```
<head>
              <title>demo on objects</title>
       <script>
              functionCircleArea(r)
              {
                     this.radius=r;
                     this.area=computeArea;
              }
              functioncomputeArea()
              {
                     varcarea=this.radius*this.radius*3.14;
                     returncarea;
       </script>
       </head>
       <body>
              <center>
              <h2><u>Customized Object in Javascript</u></h2>
              <script>
                     var r = prompt("Enter the Radius of Circle");
                     var circle=new CircleArea(r);
                     document.writeln("<b>"+"Area of circle of radius
                             is:"+circle.area());
              </script>
              </center>
       </body>
</html>
```

OUTPUT:





EXERCISE NO. 19 : USER DEFINED OBJECT IN JAVA SCRIPT (RECTANGLE)

Aim: To create a customized object in java script.

Procedure:-

Step1: Declare the object by using an object function.

Step2: Add properties to the newly created objects.

Step3: Add method to the newly created objects.

Step4: Instantiate the newly created object by using new keyword.

USER DEFINED OBJECT IN JAVASCRIPT:

```
<html>
<head>
       <script>
               function rectangle(l,b)
               {
              this.length=l;
              this.breadth=b;
       this.area=comp_Area;
              this.perimeter=comp_Perim;
               }
               function comp_Area()
               {
                 var a=this.length*this.breadth;
                 return a;
               }
               function comp_Perim()
               {
                 var p=2*(this.length+this.breadth);
                 return p;
               }
       </script>
<body>
       <script>
               var r=new rectangle(6,2);
              document.writeln("The area of rectangle:"+r.area()+"</br>");
              document.writeln("The perimeter of rectangle:"+r.perimeter());
       </script>
</body>
```

</html>

Sreenivasa Institute Of Technology And Management Studies(Autonomous), Chittoor. Web Programming Lab Manual **OUTPUT:** 🥹 Mozilla Firefox <u>File Edit View History</u> Bookmarks Tools Help C X 🏠 📲 🚺 file:///D: 🏠 👻 🔧 – Gor 🔎 🚈 Most Visited 📋 Getting Started 流 Latest Headlines file:///D...val.html 🔔 Restore Session 📄 file:/....html 🔀 ÷ The area of rectangle:12 The perimeter of rectangle:16 Done

EXERCISE NO. 20 : REGULAR EXPRESSION IN JAVA SCRIPT

Aim: To perform the following tasks using regular expression.

- 1. Finding pattern matching
- 2. Splitting pattern
- 3. Replacing a pattern

Procedure:

1. Finding pattern matching:-

Step1: Get the original string and hunt string.

Step2:Create regular expression for the hunt string.

Step3:Compare the hunt string with original string using regular expression method.

Step4: If hunt string is found then print the message as "string is found".

Else

Print the message as "string is not found"

2. Splitting pattern:-

Step1: Get the original string.Step2:Get the splitting character.Step3:Splite the string based on the splitting character.Step4: Print the individual string.

3. Replacing a pattern:-

Step1: Get the original string, hunt string and replace string.Step2: Replace the hunt string with the replace string using replace ().Seep3: Print the new string.

JAVASCRIPT REGULAR EXPRESSIONS:

Task 20.1:

<!--Pattern matching Demo ..>

```
<html>
```

```
<head>
          <title>Regular Expression demo</title>
       </head>
       <body>
          <h3 align = "center"> Pattern Matching using Regular Expression <h3>
          <script>
              Var str=prompt("Enter the string");
              var pattern=prompt("Enter pattern");
              var res=str.match(pattern);
              if(res)
                document.writeln("<b>Pattern matched:</b>"+res[0]);
              else
                document.writeln("<b>Pattern not matching</b>");
          </script>
       </body>
</html>
```

OUTPUT



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Task 20.2

<!--Splitting a String Demo ..>

```
<html>
```

```
<head>
        <title>Splitting</title>
   </head>
   <body>
        <center>
        <h3 align = "center">Splitting a String using Regular Expression <h3>
        <script>
              Var msg=prompt("Enter the message:");
              var res=msg.split(" ");
              for(var i=0;i<res.length;i++)</pre>
                     document.writeln(res[i]);
        </script>
        </center>
   </body>
</html>
```

OUTPUT





Task 20.3

```
<!-- Replacing a String with Another String Demo ..>
<html>
     <head>
        <title>replacing string</title>
      </head>
      <body>
         <h3 align = center> Replacing a String using Replace Method </h3>
         <script>
             var str=prompt("Enter the string");
             var ptrn1=prompt("Enter first pattern");
             var ptrn2=prompt("Enter second pattern");
             document.writeln("The Given String is :" +"<b>"+str+"</b><br/>br/>>");
             document.writeln("The String to be Replaced :"
                   +"<b>"+ptrn1+"</b><br/>>");
                                                     :"+"<b>"+ptrn2+"</b><br/>);
             document.writeln("Replace String with
             var res=str.replace(ptrn1,ptrn2);
             document.writeln("String After Replacing is
                          : "+"<b>"+res+"</b>");
```

</script>

</body>

</html>

OUTPUT



EXERCISE NO. 21: JAVA SCRIPT BUILT IN OBJECTS

Aim: To create built in object using java script.

Procedure:

Step1: Declare a function called BrowserDetailsin script tag.

Step2:In BrowserDetails()get all the details of browser using app code name, app name, app version etc and print the details.

Step3:In body tag invoke the BrowserDetails().

Step4:Save the file with .html extension and open the file in any browser to view the output.

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JAVASCRIPT BUILT IN OBJECTS:

<Html>

```
<head>
<title>Browser Object Demo</title>
<script>
      function BrowserDetails()
      {
             var iname=navigator.appCodeName;
             var pname=navigator.appName;
             var ver=navigator.appVersion;
             document.write("Internal name of the Browser"+ iname +"<br>br>");
             document.write("public name of the Browser"+ pname +"<br>br>");
             document.write("version of the Browssr"+ver+"<br>br>");
             }
</script>
</head>
<body>
      <form action=" " method="post">
             <input type="button" value="Browserinfo"
             onclick="BrowserDetails()">
      </form>
</body>
```

</html>

OUTPUT:

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Browserinfo Internal name of the BrowserMozilla public name of the BrowserScape version of the Browssr5.0 (Windows)	р. Search 🐠 🔏 т м	P- Search 🐼 🕷 M
	Browserinfo	Internal name of the BrowserMozilla public name of the BrowserNetscape version of the Browssr5.0 (Windows)

Date Object

<html>

```
<head>
        <title>date and time demo</title>
</head>
<body>
        <script>
            var today, someday, text;
            today = new Date();
            someday = new Date();
            someday.setFullYear(2100, 0, 14);
            if (someday > today)
                text = ''Today is before January 14, 2100.'';
            else
                text = ''Today is after January 14, 2100.'';
            document.writeln(text);
```

</script>

</body>

</html>

OUTPUT



EXERCISE NO. 22: JAVA SCRIPT EVENTS

Aim: To create a student form and illustrate the events.

Procedure:

•

Step1:Create a **Form** using form tag.

step2: Place Text Boxes and name them asstud no, sname, sub1, sub2, sub3, total, avg, result.

Step3: Write a function called **compute**() for **calculating total**, **average and result**.

Step4:Invoke the function when the submit button is clicked.

A PROGRAM TO ILLUSTRATE JAVASCRIPT EVENTS:

```
<html>
```

<head>

<script>

```
function compute()
           ł
           var m1=document.forms[0].elements[2].value;
           var s1=parseInt(m1);
           var m2=document.forms[0].elements[3].value;
           var s2=parseInt(m2);
           var m3=document.forms[0].elements[4].value;
           var s3=parseInt(m3);
           var tot=s1+s2+s3;
           var avg=tot/3;
           var res;
           if((s1 \ge 50)\&\&(s2 \ge 50)\&\&(s3 \ge 50))
           res="pass";
           else
           res="fail";
           document.forms[0].elements[5].value=tot;
           document.forms[0].elements[6].value=avg;
           document.forms[0].elements[7].value=res;
           }
     </script>
</head>
<body>
     <form method="post">
           <center>
           <h2>Student Form</h2>
           Sno
                       <input type="text" name="sno">
                 Sname
                       <input type="text" name="sname">
                 Sub1
                       <input type="text" name="s1">
                 Sub2
                       <input type="text" name="s2">
```

Sub3

<input type="text" name="s3">

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total <input type="text" name="tot"> Average <input type="text" name="avg"> Result <input type="text" name="res"> <input type="button" value="submit" onClick="compute()"> </center> </form> </body> </html>

OUTPUT:

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Sub3	45	
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MCA Department

EXERCISE NO. 23: EMPLOYEE SALARY FORM USING JAVA SCRIPT EVENTS

Aim: To create an employee salary details FORM and COMPUTE GS AND NS using events.

Procedure:

Step1:Create a form using <form> tag.

Step2:PlaceTextBoxes and name them as eno, ename, bsal, hra, pf, da, gs, ns.

Step4: Write functions for calculations hra, da, pf, gs and ns.

Step4:Revoke the functions using 'on blur' Event

EMPLOYEE SALARY FORM TO ILLUSTRATE JAVASCRIPT EVENTS:

<html>

```
<head>
      <title>employee details</title>
      <h3 align = "center"><u> EMPLOYEE SALARY DETAILS
                          USING JAVASCRIPT</u></h3>
      <script>
          function hra()
          {
             var bs=document.forms[0].elements[2].value;
             var bs1=parseInt(bs);
             var hra1=0.15*bs1;
             document.forms[0].elements[3].value=hra1;
          }
          function da()
             var bs=document.forms[0].elements[2].value;
             var bs1=parseInt(bs);
             var da1=0.1*bs1;
             document.forms[0].elements[4].value=da1;
          }
          function pf()
             var bs=document.forms[0].elements[2].value;
             var bs1=parseInt(bs);
             var pf1=0.05*bs1;
             document.forms[0].elements[5].value=pf1;
          }
          function gs()
          {
             var
             gs1=parseInt(document.forms[0].elements[2].value)+
             parseInt(document.forms[0].elements[3].value)+
             parseInt(document.forms[0].elements[4].value);
             document.forms[0].elements[6].value=gs1;
          }
          function ns()
             var ns1=parseInt(document.forms[0].elements[6].value)-
             parseInt(document.forms[0].elements[5].value);
             document.forms[0].elements[7].value=ns1;
          ł
 </script>
</head>
```

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<body> <form action=" " method="post"> Emp Name <input type="text" value="john"> Emp No <input type="text" value="001"> Bsalary <input type="text" value="10000"> hra <input type="text" onBlur="hra()"> da <input type="text" onBlur="da()"> pf <input type="text" onBlur="pf()"> Gross Salary <input type="text" onBlur="gs()"> Net Salary <input type="text" onBlur="ns()"> </form> </body> </html>

OUTPUT

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EMPLOYEE SAL JAV	LARY DETAILS USING VASCRIPT
Emp Name	john
Emp No	001
Basic Salary	10000
HRA	1500
DA	1000
PF	500
Gross Salary	12500
Net Salary	12000
Done	My Computer

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XML

MCA Department

EXERCISE NO . 24: WELL FORMED NESS AND VALIDNESS OF AN XML DOCUMENT

Aim: To check the xml document well formedness and validness using DTD.

Procedure:

Step1:Write DTD file and save it as "first.dtd"

Step2:Write an xml file called "cataloguedtd.xml" which links with "first.dtd".

Step3:Open the xml file and dtd file in xml spy editor.

Step4: Check the well formed ness of xml document by clicking on well formed icon in the spy editor.

Step5:Check the validness of xml document by clicking on validness icon spy editor.

CHECKING WELL-FORMEDNESS AND VALIDNESS (using DTD) OF AN XML DOCUMENT:

first.dtd

<?xml version="1.0" encoding="UTF-8"?> <!ELEMENT catalogue (book+)> <!ELEMENT book (title, author, publication, isbn, edition, price)> <!ELEMENT title (#PCDATA)> <!ELEMENT author (#PCDATA)> <!ELEMENT publication (#PCDATA)> <!ELEMENT isbn (#PCDATA)> <!ELEMENT edition (#PCDATA)> <!ELEMENT price (#PCDATA)>

Cataloguedtd.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE catalogue SYSTEM "Z:\AJP\xml\catdtd.dtd">
<catalogue>
       <book>
               <title>XML Bible</title>
               <author>Winston</author>
               <publication>Wiley</publication>
               <isbn>0-7645-4760</isbn>
               <edition>third</edition>
               <price>$40.5</price>
       </book>
       <book>
               <title>Artificial Intelligence</title>
               <author>S.Russel</author>
               <publication>Princeton Hall</publication>
               <isbn>0-13-1038</isbn>
               <edition>fourth</edition>
               <price>$63</price>
       </book>
       <book>
               <title>Java2</title>
               <author>Watson</author>
               <publication>BPB Publication</publication>
               <isbn>0-41-1058-7</isbn>
               <edition>third</edition>
               <price>$63</price>
       </book>
       <book>
               <title>HTML in 24 hours</title>
               <author>Sam Peter</author>
               <publication>Sam Publications</publication>
               <isbn>0-672-32841-0</isbn>
               <edition>third</edition>
               <price>$50</price>
       </book>
</catalogue>
```



EXERCISE NO. 25 : DISPLAYING XML USING CSS

Aim: To write an xml file using css which displays the following information in the browser.

- 1. Title of the book.
- 2. Author Name
- 3. ISBN number
- 4. Publisher Name
- 5. Edition
- 6. Price

Procedure:

Step1:Write an xsd file for the above six elements and save it as "first.xsd".

Step2:Write a css file for the above six elements and save it as "second.css".

Step3: Write an xml file called "cataloguecss.xml" which links both "first.xsd" and "second.css".

Step4:View the contents of xml file in any browser.

DISPLAYING THE XML DOCUMENT BASED ON THE STYLES SPECIFIED IN CASCADING STYLESHEET:

```
Second.css
        title
        {
                 font-family:arial;
                 font-size:20px;
                 color:red;
        }
        author
        {
                 font-family:TimesNewRoman;
                 font-size:10px;
                 color:blue;
        }
        publication, is bn, edition, price
                 display:block;
                 font-family:courier;
                 font-size:7px;
                 color:green;
        }
Cataloguecss.xml
        <?xml version="1.0" encoding="UTF-8"?>
        <?xml-stylesheet type="text/css" href="catcss.css"?>
                 <book>
                          <title>XML Bible</title>
                          <author>Winston</author>
                         <isbn>0-17-234</isbn>
                         <publication>Wiley</publication>
                         <edition>third</edition>
                          <price>$40.5</price>
                 </book>
                 <book>
                          <title>Artificial Intelligence</title>
                         <author>S.Russel</author>
                         <isbn>2-85756</isbn>
                         <publication>Princeton Hall</publication>
                         <edition>fourth</edition>
                          <price>$50</price>
                 </book>
                 <book>
                         <title>Java2</title>
                         <author>Watson</author>
                         <isbn>0-342-243</isbn>
                         <publication>BPB publication</publication>
                          <edition>third</edition>
                          <price>$63</price>
                 </book>
                 <book>
                         <title>HTML in java2</title>
                         <author>Sam peter</author>
                         <isbn>0-456-275</isbn>
                         <publication>Sam publication</publication>
                         <edition>fifth</edition>
                          <price>$78</price>
                 </book>
        </catalog>
```

OUTPUT

XML DOCUMENT BASED ON CSS

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SERVLETS

MCA Department

EXERCISE NO. 26: LOGIN FORM USING GENERIC SERVLET

Aim: To write a servlet program for executing the login page by extending generic Servlet class.

Procedure:

- **Step1:** Create a folder called **ServletExamples** in e:\apache-tomcat6.0.20 \webapps
- Step2: Open the Notepad and write the code for login page and save it as "login.html" in e:\apachetomcat 6.0.20\webapps\ServletExamples.
- Step3: Create a folder called WEB-INF in e:\apache-tomcat6.0.20 \webapps\ServletExamples.
- Step4:Write an xml file called "web.xml"ine:\apache-tomcat6.0.20\webapps\Servlet Examples\WEB-INF
- Step5: Create a folder called classes in e:\apache-tomcat6.0.20\webapps\Servlet Examples\WEB-INF
- Step6: Write a java program that extends "GenericServlet" and save it as LoginProcess.java in e:\apache-tomcat6.0.20 \webapps\ServletExamples\WEB-INF\classes.
- **Step7:** Set the classpath as

Set classpath=%classpath%

E:\apache-tomcat 6.0.20\lib\servletapi.jar.

Step8: Compile the java program and check whether the java file and class file exist in e:\apachetomcat6.0.20 \webapps\ServletExamples\WEB-INF\classes.

Step9: Start the tomcat server.

Step10: Execute the html file to view the result.
LOGIN FORM USING service METHOD OF GenericServlet:

Login.html

```
<html>
     <head>Login page</head>
     <body>
          <form name="F4" method="get"
                    action="http://localhost:808/ServletExamples/Pattern1">
          <h1>Login page</h1>
          username
               <input type="text" name="un"/>
          password
               <input type="password" name="psw"/>
          <input type="submit" value="submit"/>
          </form>
     </body>
</html>
```

LoginProcess.java

```
import java.io.*;
import javax.servlet.*;
public class LoginProcess extends GenericServlet
{
```

public void service(ServletRequestreq,ServletResponse res)throws ServletException,IOException

```
{
```

String user=req.getParameter("un"); res.setContentType("text/html"); PrintWriter pw=res.getWriter(); pw.println("welcome to"); pw.println(user);

```
}
```

}





EXERCISE NO.27 : DISPLAYING COLORS USING GENERICSERVLET

Aim: To write a servlet program for displaying selected color using GenericServlet.

Procedure:

- **Step1:** Create a folder called **ServletExamples** in e:\apache-tomcat6.0.20 \webapps
- Step2: Open the Notepad and write the code for login page and save it as "color.html" in E:\Apache-tomcat 6.0.20\webapps\ServletExamples.
- Step3: Create a folder called WEB-INF in e:\apache-tomcat6.0.20 \webapps\ServletExamples.
- Step4: Write an xml file called "web.xml"ine:\apache-tomcat6.0.20\webapps\Servlet Examples\WEB-INF
- Step5: Create a folder called classes in e:\apache-tomcat6.0.20\webapps\Servlet Examples\WEB-INF
- Step6: Write a java program that extends "GenericServlet" and save it as ColorProcess.java in e:\apache-tomcat6.0.20 \webapps\ServletExamples\WEB-INF\classes.
- **Step7:** Set the classpath as

Set classpath=%classpath%

E:\apache-tomcat 6.0.20\lib\servletapi.jar.

Step8: Compile the java program and check whether the java file and class file exist in e:\apachetomcat6.0.20 \webapps\ServletExamples\WEB-INF\classes.

Step9: Start the tomcat server.

Step10: Execute the html file to view the result.

DISPLAYING COLOR USING service METHOD OF GenericServlet:

```
Colors.html
```

```
<html>
             <head>Displaying colors</head>
             <body>
                   <form name="F1" method="get"
                          action="http://localhost:808/ServletExamples/Pattern2">
                   ="c1" size="1">
                                       <option>red</option>
                                       <option>yellow</option>
                                       <option>green</option>
                          </select>
                          <input type="submit" value="submit"/>
                          </form>
             </body>
      </html>
ColorsProcess.java
      import java.io.*;
      import javax.servlet.*;
      public class ColorsProcess extends GenericServlet
      ł
            public void service(ServletRequestreq,ServletResponse res)throws
                                       ServletException,IOException
             ł
                   String s1=req.getParameter("c1");
                   res.setContentType("text/html");
                   PrintWriter pw=res.getWriter();
                   pw.println("the selected color is");
                   pw.println(s1);
             }
      }
```

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🖉 http://localhost:808/servlet_examples/sec 🔳 🗖 🗙
🚱 🗸 🗷 http://localhost:808/s 🕶 🐓 🗙 Live Search
File Edit View Favorites Tools Help
😤 🏟 🔀 http://localhost:808/servl 📄 🟠 🔹 🎽
the selected color is vellow
Secol intranet 🔍 100% 👻

EXERCISE NO. 28 : DISPLAYING COLOR USING DOGET METHOD OF HTTPSERVLET

Aim: To write a servlet program for displaying the color name using doGet() method of HttpServlet class

Procedure:

- **Step1:** Create a folder called **ServletExamples** in **E:\Apache-tomcat6.0.20** \webapps
- Step2: Open the Notepad and write the code for Color page and save it as "color.html" in E:\Apache-tomcat 6.0.20\webapps\ServletExamples.
- Step3: Create a folder called WEB-INF in e:\apache-tomcat6.0.20 \webapps\ServletExamples.
- Step4: Write an xml file called "web.xml"ine:\apache-tomcat6.0.20\webapps\Servlet Examples\WEB-INF
- Step5: Create a folder called classes in e:\apache-tomcat6.0.20\webapps\Servlet Examples\WEB-INF
- Step6: Write a java program that extends "HttpServlet" and save it as ColorProcess.java in e:\apache-tomcat6.0.20 \webapps\ServletExamples\WEB-INF\classes.
- **Step7:** Set the classpath as

Set classpath=%classpath%

E:\apache-tomcat 6.0.20\lib\servletapi.jar.

Step8: Compile the java program and check whether the java file and class file exist in e:\apachetomcat6.0.20 \webapps\ServletExamples\WEB-INF\classes.

Step9: Start the tomcat server.

Step10: Execute the html file to view the result.

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```
ColorsGet.html
<html>
      <head>Displaying colors</head>
      <body>
             <form name="F2" method="get"
                          action="http://localhost:808/ServletExamples/Pattern3">
                    <select name="c2" size="1">
                                        <option>red</option>
                                        <option>yellow</option>
                                        <option>green</option>
                                 </select>
                           <input type="submit" value="submit"/>
                          </form>
      </body>
</html>
HttpGet.java
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
public class HttpGet extends HttpServlet
{
      public void doGet(HttpServletRequestreq,HttpServletResponse res)throws
                                        ServletException,IOException
       {
                    String s12=req.getParameter("c2");
                    res.setContentType("text/html");
                    PrintWriter pw=res.getWriter();
                    pw.println("the selected color is");
                    pw.println(s12);
      }
}
                                                                                   Mrs. R.Padmaja
MCA Department
```





EXERCISE NO. 29 : DISPLAYING COLOR USING DOPOST METHOD OF HTTPSERVLET

Aim: To write a servlet program for displaying Color Name using doPost Method of HttpServlet class.

Procedure:

Procedure:

Step1:	Create a folder called ServletExamples in E:\Apache-tomcat6.0.20 \webapps					
Step2:	Open the Notepad and write the code for Color page and save it as "color.html" in E:\Apache-tomcat 6.0.20\webapps\ServletExamples.					
Step3:	Create a folder called WEB-INF in e:\apache-tomcat6.0.20 \webapps\ServletExamples.					
Step4:	Write an xml file called "web.xml "ine:\apache-tomcat6.0.20\webapps\Servlet Examples\WEB-INF					
Step5:	Create a folder called classes in e:\apache-tomcat6.0.20\webapps\Servlet Examples\WEB- INF					
Step6:	Write a java program that extends "HttpServlet" and save it as ColorProcess.java in e:\apache-tomcat6.0.20 \webapps\ServletExamples\WEB-INF\classes.					
Step7:	Set the classpath as					
	Set classpath=%classpath%					
	E:\apache-tomcat 6.0.20\lib\servletapi.jar.					
~ ~						

Step8: Compile the java program and check whether the java file and class file exist in e:\apachetomcat6.0.20 \webapps\ServletExamples\WEB-INF\classes.

Step9: Start the tomcat server.

Step10: Execute the html file to view the result.

DISPLAYING COLOR USING doPost METHOD OF HttpServlet:

ColorsPost.html

```
<html>
     <head>Displaying colors</head>
     <body>
     <form name="F3" method="post"
           action="http://localhost:808/ServletExamples/Pattern4">
           <select name="c3" size="1">
                             <option>red</option>
                             <option>yellow</option>
                             <option>green</option>
                       </select>
                 <input type="submit" value="submit"/>
                 </form>
     </body>
```

</html>

HttpPost.java

```
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
public class HttpPost extends HttpServlet
{
       public void doPost(HttpServletRequestreq,HttpServletResponse res)throws
                                            ServletException,IOException
       {
              String s1=req.getParameter("c1");
              res.setContentType("text/html");
              PrintWriter pw=res.getWriter();
              pw.println("The selected color is");
```

pw.println(s1);

```
}
```

}

Web Programming Lab Manual





EXERCISE NO. 30 : READING SERVLET PARAMETER USING GENERIC SERVLET

Aim: To write a servlet program for Reading Servlet Parameters using Generic Servlet class.

Procedure:

- Step1: Create a folder called ServletExamples in E:\Apache-tomcat6.0.20 \webapps
- Step2: Open the Notepad and write the code for Color page and save it as "color.html" in E:\Apache-tomcat 6.0.20\webapps\ServletExamples.
- Step3: Create a folder called WEB-INF in e:\apache-tomcat6.0.20 \webapps\ServletExamples.
- Step4: Write an xml file called "web.xml"ine:\apache-tomcat6.0.20\webapps\Servlet Examples\WEB-INF
- Step5: Create a folder called classes in e:\apache-tomcat6.0.20\webapps\Servlet Examples\WEB-INF
- Step6: Write a java program that extends "HttpServlet" and save it as ColorProcess.java in e:\apache-tomcat6.0.20 \webapps\ServletExamples\WEB-INF\classes.
- **Step7:** Set the classpath as

Set classpath=%classpath%

E:\apache-tomcat 6.0.20\lib\servletapi.jar.

Step8: Compile the java program and check whether the java file and class file exist in e:\apachetomcat6.0.20 \webapps\ServletExamples\WEB-INF\classes.

Step9: Start the tomcat server.

Step10: Execute the html file to view the result.

READING SERVLET PARAMETERS USING service METHOD OF GenericServlet:

EmpLogin.html

```
<html>
     <head>Login page</head>
     <body>
     <form name="F5" method="get"
          action="http://localhost:808/ServletExamples/Pattern5">
          <h1>Login page</h1>
          username
                     <input type="text" name="un">
               password
                     <input type="password" name="psw">
               <input type="submit" value="submit">
               </form>
     </body>
</html>
```

EmploginReadpara.java

```
import java.io.*;
import java.util.*;
import javax.servlet.*;
public class EmploginReadpara extends GenericServlet
public void service(ServletRequestreq,ServletResponse res)throws
                                           ServletException,IOException
{
       res.setContentType("text/html");
       PrintWriter pw=res.getWriter();
       Enumeration e=req.getParameterNames();
       while(e.hasMoreElements())
       {
              String pname=(String)e.nextElement();
              pw.println(pname+"=");
              String pvalue=req.getParameter(pname);
              pw.println(pvalue);
       }
}
}
```





<u>web.xml (</u> The Deployment Descriptor for all the above Servlet Programs)
<web-app></web-app>
<servlet></servlet>
<servlet-name>Servlet1</servlet-name>
<servlet-class>LoginProcess</servlet-class>
<servlet-mapping></servlet-mapping>
<servlet-name>Servlet1</servlet-name>
<ur><url>pattern>/Pattern1</url></ur>
<servlet></servlet>
<servlet-name>Servlet2</servlet-name>
<pre><servlet-class>ColorsProcess</servlet-class></pre>
<servlet-mapping></servlet-mapping>
<servlet-name>Servlet2</servlet-name>
<ur><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><url><lu><url><url><lu><url><url><lu><url><lu><url><lu><url><lu><url><lu><url><lu><url><lu><url><lu><url><lu><url><lu><url><lu><url><lu><url><lu><url><lu><url><lu><url><lu><url><lu><url><lu><url><lu><url><lu><url><lu><url><lu><url><url< td=""></url<></url></lu></url></lu></url></lu></url></lu></url></lu></url></lu></url></lu></url></lu></url></lu></url></lu></url></lu></url></lu></url></lu></url></lu></url></lu></url></lu></url></lu></url></lu></url></lu></url></lu></url></lu></url></lu></url></url></lu></url></url></lu></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></url></ur>
<servlet></servlet>
<serviet-name>Serviet3</serviet-name>
<serviet-class>HttpGet</serviet-class>
<serviet-mapping></serviet-mapping>
<pre><setviet-indime>setviets</setviet-indime> <uelsetviets< pre=""></uelsetviets<></pre>
<pre></pre>
<pre> </pre>
<pre>>scrvlet.name>Servlet4</pre>
<servlet.class>HttnPost</servlet.class>
<servlet-manning></servlet-manning>
<pre><servlet.name>Servlet4</servlet.name></pre>
<url> <url-nattern>/Pattern4</url-nattern> </url>
<servlet></servlet>
<pre><servlet-name>Servlet5</servlet-name></pre>
<servlet-class>EmploginReadpara</servlet-class>
<servlet-mapping></servlet-mapping>
<servlet-name>Servlet5</servlet-name>
<url-pattern>/Pattern5</url-pattern>
<servlet></servlet>
<servlet-name>Servlet6</servlet-name>
<servlet-class>Getcookie</servlet-class>
<servlet-mapping></servlet-mapping>
<servlet-name>Servlet6</servlet-name>
<url-pattern>/Pattern6</url-pattern>

Web Programming Lab Manual

JSP

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EXERCISE NO.31 : LOGIN FORM USING JSP

Aim: To Develop a Login Form using JSP.

Procedure:

Step1: Create a folder called JspExamplesin E:\Apache-tomcat6.0.20 \webapps

- Step2: write the following "LoginPage program " and save it as "Login.html" in E:\Apachetomcat6.0.20 \webapps\JspExamples
- Step3: Write the following JSP Program and save it as "LoginProcess.jsp" in E:\Apachetomcat6.0.20 \webapps\JspExamples

Step4: start the tomcat server.

Step5: Open the html file in any browser to view the result.

Login.html

```
<html>
     <head>Login page</head>
     <body>
     <form name="F5" method="get"
          action="http://localhost:808/JspExamples/LoginProcess.jsp">
          <h1>Login page</h1>
          username
                    <input type="text" name="un">
               password
                    <input type="password" name="psw">
               <input type="submit" value="submit">
               </form>
     </body>
</html>
```

LoginProcess.jsp

```
<% @ page language = "java" %>
<html>
<body>
<h3> Welcome to </h3>
<h3>${param.un}</h3>
</body>
</html>
```

OUTPUT:



http://localhost:808/jsp-examples/LoginProcess.jsp?u	ise 🔳 🗖 🔀				
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File Edit View Favorites Tools Help	at l				
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Welcome to	~				
user1					
Done Second Seco	👻 100% 👻				

MCA Department

EXERCISE NO. 32 : DISPLAYING COLOR NAME USING JSP

Aim: To display selected colorname using JSP.

Procedure:

Step1: Create a folder called JspExamples in E:\Apache-tomcat6.0.20 \webapps

- Step2: write the following "ColorPage program " and save it as "Color.html" in E:\Apachetomcat6.0.20 \webapps\JspExamples
- Step3: Write the following JSP Program and save it as "ColorProcess.jsp" in E:\Apachetomcat6.0.20 \webapps\JspExamples

Step4: start the tomcat server.

Step5: Open the html file in any browser to view the result.

Color.html

<html>

```
<head></head>
     <body>
     <form name="color" method="get" action="http://localhost:808/jsp-
           examples/ColorProcess.jsp">
     Colors
                 <select name="color" size="1">
                       <option>Blue</option>
                       <option>Pink</option>
                       <option>orange</option>
                 </select>
           <input type="submit" value="submit">
           </form>
     </body>
</html>
ColorProcess.isp
<html>
<head></head>
     <body>
      selected color is:${param.color}
     </body>
</html>
```





EXERCISE NO .33 : DISPLAYING CART PAGE FROM CATALOGUE PAGE

Aim: To Display cart page from catalogue page.

Procedure:

- Step1:Design the following catalogue page and save it as "Catalog.html" in E:\Apache-tomcat 6.0.20\webapps\JspExamples.
- Step2: Write the following JSP Program and save it as "cart.jsp" in in E:\Apache-tomcat 6.0.20\webapps\JspExamples.

Step4: start the tomcat server.

Step5: Open the html file in any browser to view the result.

Catalog.html

```
<html>
     <head>
           <title>Catalogue</title>
     </head>
     <body bgcolor="skyblue">
     <form name="js" method="post" action="http://localhost:808/jsp-examples/cart.jsp">
           <center>
                 <font color="blue">Snapshot
                             <font color="orange">Book details
                             <font color="yellow">Quantity
                             <font color="green">Price
                             <font color="red">CartButton
                       ="lily.jpg" width="60%">
                             <input type="text" name="bname1" value="xml
                                   Bible"></br>
                                   <input type="text" name="author1"
                                         value="winston"></br>
                                   <input type="text" name="publication1"
                                         value="wiely"></br>
                             <input type="text" name="qty1" value="5">
                             <input type="text" name="price1" value="100">
                             <input type="button" name="cart1" value="Add to
                                   Cart">
                       <imgsrc="lily.jpg" width="60%">
                             input type="text" name="bname2"
                                         value="artificial"></br>
                                   <input type="text" name="author2"
                                         value="s.russel"></br>
                                   <input type="text" name="publication2"
                                         value="princeton"></br>
                             <input type="text" name="qty2" value="2">
                             <input type="text" name="price2" value="250">
                             <input type="button" name="cart2" value="Add to
                                   Cart">
                       <imgsrc="lily.jpg" width="60%">
                             <input type="text" name="bname3" value="java"
                                         2"></br>
                                   <input type="text" name="author3"
                                         value="watson"></br>
                                   <input type="text" name="publication3"
                                         value="bpbpubls"></br>
```

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```
<input type="text" name="qty3" value="3">
                          <input type="text" name="price3" value="75">
                          <input type="button" name="cart3" value="Add to
                                    Cart">
                     <imgsrc="lily.jpg" width="60%">
                          ="td>="text" name="bname4" value="html in
                               24"></br>
                               <input type="text" name="author4" value="sam
                                     peter"></br>
                               <input type="text" name="publication4"
                                     value="sampubls"></br>
                          <input type="text" name="qty4" value="10">
                          <input type="text" name="price4" value="500">
                          <input type="button" name="cart4" value="Add to
                                    Cart">
                     <input type="submit"
                               name="tot1" value="Total"/>
                          <input type="text" name="total"/>
                     <input type = "submit"
                               value = "submit">
                     </center>
     </form>
     </body>
</html>
```

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```
Cart.jsp
<% @ page language="java"%>
<html>
    <head></head>
    <body>
    <h3 align = "center"> List of Books Purchased </h3>
    Bookname
             Authorname
             quantity
             price
             Amount
        ${param.bname1}
             ${param.author1}
             ${param.qty1}
             ${param.price1}
             ${param.qty1*param.price1}
        ${param.bname2}
             ${param.author2}
             ${param.qty2}
             ${param.price2}
             ${param.qty2*param.price2}
        ${param.bname3}
             ${param.author3}
             ${param.qty3}
             ${param.price3}
             ${param.qty3*param.price3}
        ${param.bname4}
             ${param.author4}
             ${param.qty4}
             ${param.price4}
             ${param.qty4*param.price4}
        <tdcolspan = 3>Total:
             ${param.qty1*param.price1+param.qty2*param.price2+param.qty3*
                 param.price3+param.qty4*param.price4}
        </body>
</html>
```

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Catalogue - Windows	Internet Explorer						
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					<u>^</u>		
Snapshot	Book details		Price	CartButton			
N Dec	xml Bible						
	winston	5	100	Add to Cart			
	wiely						
N. A.	artificial						
	s.russel	2	250	Add to Cart			
	princeton						
N. Au	java 2						
	watson	3	75	Add to Cart			
	bpb publs						
N Ale	html in 24						
	sam peter	10	500	Add to Cart			
	sam publs						
Total							
submit							
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EXERCISE NO. 34 : PASSING CONTROL FROM ONE PAGE TO ANOTHER PAGE

Aim: To Passing control from one page to another page.

Procedure:

Step1: Type the following JSP CODE in notepad and save it as "InputForm.jsp", "Myjsp.jsp" and "ErrorPage.jsp" in E:\Apache-tomcat6.0.20 \webapps\JspExamples.

Step2: start the tomcat server.

Step3: Type the url<u>http://localhost:808/jspexamples/scope.jsp</u> in any browser to view the contents.

Step2: start the tomcat server.

Step3:Goto Browser and type the URL as http://localhost :808/JspExamples/InputForm.jsp

Web Programming Lab Manual

<u>InputForm.jsp</u>

```
<html>
      <head>
             <title>Data passing b/w pages</title>
      </head>
      <body>
      <\%
             if(request.getParameter("username")=="")
             {
      %>
             <jsp:forward page="ErrorPage.jsp"/>
      <%
              }
             else if(request.getParameter("username")!=null)
              {
      %>
             <jsp:forward page="Myjsp.jsp"/>
      <%
             }
             else
             {
      %>
             <center>
                    <form method="get" action="InputForm.jsp">
                    <strong>Enter user Name:</strong>
                    <input type="text" name="username"/>
                    <br/>br/>
                    <strong>Enter password:</strong>
                    <input type="password" name="password"></br>
                    <input type="submit" value="submit"/>
             </center>
             </form>
      <%
              }
      %>
      </body>
</html>
Mvisp.jsp
<html>
      <head></head>
      <body>
      Welcome Mr <b>${param.username}</b>
      </body>
</html>
```

ErrorPage.jsp

<html>

<head> </head> <body> You have entered a wrong password click here to go back </body>

</html>

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Enter password:	
submit	
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EXERCISE NO. 35 : SESSION AND APPLICATION SCOPE ILLUSTRATION

Aim: To illustration the session and application scope variables.

Procedure:

Step1: Type the following JSP CODE in notepad and save it as 'scope.jsp' and place in E:\Apachetomcat6.0.20 \webapps\JspExamples.

Step2: start the tomcat server.

Step3:Type the url<u>http://localhost:808/jspexamples/scope.jsp</u> in any browser to view the contents.

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SessionApplication.jsp	
<%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core"%> <html> <head> </head></html>	
<body></body>	
<pre><c:set scope="session" value="\${first+1}" var="first"></c:set> <c:set scope="application" value="\${second+1}" var="second"></c:set> <h3>Welcome </h3> <h2>session count of this page is \${first}</h2> <h2>application count of this page is \${second}</h2></pre>	

</html>







EXERCISE NO.36 : ILLUSTRATION OF JSTL CORE TAG

Aim: To illustration of jstl core tag.

Procedure:

Step1: Create a folder called JspExamplesin E:\Apache-tomcat 6.0.20\webapps.

Step2:Create a foldercalled WEB-INF in E:\Apache-tomcat 6.0.20\webapps\JspExamples.

Step3: Create a folder "lib" in E:\Apache-tomcat 6.0.20\webapps\JspExamples\WEB-INF

Step4: Copy jstl.jar and standard.jar fromE:\Apache-tomcat 6.0.20\webapps\JspExamples\lib.

Step5:paste the two jar files inE:\Apache-tomcat 6.0.20\webapps\JspExamples \WEB-INF\lib.

Step6:Set the classpath as

e:\apache-tomcat6.0.20 \web apps\jsp examples\web-inf\lib\standard.jar;

Step7:Write a jsp program that uses jst1 core tags

Step8:start the tomcat server.

Step9: Execute the JSP program by typing the url<u>http://localhost:808/JspExamples/ForLoop.jsp</u>in any browser.

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ForLoop.jsp

```
<% @page language="java"%>
<% @taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core"%>
<html>
<body>
<b>The natural numbers are</b>
<c:forEach var="i" begin="1" end="10">
<c:out value="${i}"/>
</c:forEach>
</body>
</html>
```



<u>Import.jsp</u>

```
<% @page contentType="text/html"%>
<% @taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core"%>
<html>
<body bgcolor="pink">
<c:importurl="MyPage.html"/>
<c:out value="Thank You for using this demo"/>
</body>
</html>
```

MyPage.html

<html>

<body>

- <h1>The visitors of this site are always wonderful persons</h1>
- </body>

</html>




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apple 🔽 Enter	
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🌈 http://localhost:808/jsp-examples/second.jsp - Windows 🔳 🗖 🔀	
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MCA Department	Mrs. R.Padmaja

Web Programming Lab Manual

PHP

MCA Department

EXERCISE NO. 37 : LOGIN FORM USING PHP

Aim: To design Login form using php.

Procedure:

Step1:Create a folder called PHP examples in E:\XAMP\XAMP\htdocs.

Step2:Open notepad by invoking programs ->Accessories -> notepad.

Step3: Type the following php code and save it as 'loginform.php' in E:\XAMP\XAMP\htdocs\php examples.

Step4: Start tomcat server by invoking E:\XAMP\XAMP-controller and press start button.

Step5:Type the url<u>http://localhost:8080/phpexamples</u> in any browser.

Step6: Select 'loginform.php' from the list to execute the program.

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LOGIN FORM USING PHP:

<html>

```
<head>
</head>
<body>
<form method="POST">
<h3>Enter UserName</h3>
<input type="text" name="un"/>
<input type="submit" value="submit"/>
</form>
<?php
@$name=$_POST['un'];
echo "<h3>welcome $name</h3>";
?>
</body>
```

OUTPUT

scon	Submit
welcome	
Enter UserName	
	submi
welcome scott	

EXERCISE NO . 38 : ARITHMETIC OPERATIONS IN PHP

Aim: To illustrate Arithmetic operations in php.

Procedure:

Step1:Create a folder called PhpExamplesin E:\XAMP\XAMP\htdocs.

Step2: Open notepad by invoking

programs ->Accessories -> notepad.

- Step3: Type the following php code and save it as 'arth-oper.php' in E:\XAMP\XAMP\htdocs\Php Examples.
- **Step4:** Start tomcat server by invoking E:\XAMP\XAMP-controller and press start button of apache.

Step5:Type the url<u>http://localhost:8080/PhpExamples</u> in any browser.

Step6: Select 'arth-oper.php' from the list to execute the program.

TO ILLUSTRATE ARITHMETIC OPERATIONS IN PHP:

<html>

```
<head>
<title>Arithmetical Operators</title>
</head>
```

```
<body>
```

<?php \$a = 42; \$b = 20; \$c = \$a + \$b; echo "Addition of a and b: \$c
"; c = a - b;echo "Difference between a and b: \$c
>"; \$c = \$a * \$b; echo "Multiplication of a and b: \$c
"; \$c = \$a / \$b; echo "Division of a and b: \$c
"; \$c = \$a % \$b; echo "Modulus of a and b: \$c
>"; ?> </body> </html>

OUTPUT

Addition of a and b: 62 Difference between a and b: 22 Multiplication of a and b: 840 Division of a and b: 2.1 Modulus of a and b: 2

EXERCISE NO. 39 : RELATIONAL OPERATIONS IN PHP

Aim: To illustrate Relational operations in php.

Procedure:

Step1: Create a folder called PhpExamplesin E:\XAMP\XAMP\htdocs.

Step2: Open notepad by invoking

programs ->Accessories -> notepad.

Step3: Type the following php code and save it as 'rel-oper.php' in E:\XAMP\XAMP\htdocs\Php Examples.

Step4: Start tomcat server by invoking E:\XAMP\XAMP-controller and press start button of apache.

Step5: Type the urlhttp://localhost:8080/PhpExamples in any browser.

Step6: Select 'rel-oper.php' from the list to execute the program.

TO ILLUSTRATE RELATIONAL OPERATIONS IN PHP:

<html>

```
<head>
       <title>Comparison Operators</title>
</head>
<body>
       <?php
             $A = 45;
             B = 24;
             if( $A == $B )
             ł
                    echo "A is equal to B<br/>>";
             ł
             else
             ł
                    echo "A is not equal to B<br/>>";
             }
             if( $A> $B )
                    echo "A is greater than B<br/>';
             }
             else
             ł
                    echo "A is not greater than B<br/>";
             }
             if( $A< $B )
             ł
                    echo "A is less than B<br/>>";
             }
             else
             {
                    echo "A is not less than B<br/>";
             }
             if( $A != $B )
                    echo "A is not equal to B<br/>y;
             }
             else
             {
                    echo "A is equal to B<br/>>";
             }
             if( $A>= $B )
```

```
{
                           echo "A is either greater than or equal to B<br/>>";
                    }
                    else
                    {
                           echo "A is neither greater than nor equal to B<br/>y;
                    }
                    if( $A<= $B )
                    {
                           echo "A is either less than or equal to B<br/>y;
                    }
                    else
                    {
                           echo "A is neither less than nor equal to B<br/>y;
                    }
             ?>
      </body>
</html>
```

OUTPUT

A is not equal to B A is greater than B A is not less than B A is not equal to B A is either greater than or equal to B A is neither less than nor equal to B

EXERCISE NO. 40 : ARRAY FUNCTIONS IN PHP

Aim: To perform Array functions in php.

Procedure:

Step1: Create a folder called PhpExamplesin E:\XAMP\XAMP\htdocs.

Step2: Open notepad by invoking

programs ->Accessories -> notepad.

- Step3: Type the following php code and save it as 'arr-oper.php' in E:\XAMP\XAMP\htdocs\Php Examples.
- **Step4:** Start tomcat server by invoking E:\XAMP\XAMP-controller and press start button of apache.

Step5: Type the urlhttp://localhost:8080/PhpExamples in any browser.

Step6: Select 'arr-oper.php' from the list to execute the program.

TO ILLUSTRATE ARRAY FUNCTIONS IN PHP:

```
<html>
```

```
<head>
       <title>Array Functions</title>
</head>
<body>
      <?php
             $states=array("Ohio","New York");
             echo "Array elements are:";
             foreach($states AS $i)
             ł
                    echo "<br/>$i}";
             }
             array unshift($states,"California","Texas");
             echo "<br/>br/><br/>After adding values to the front of an Array:";
             foreach($states AS $i)
             {
                    echo "<br/>{$i}";
             }
             array_push($states,"Florida");
             echo "<br/>br/><br/>After adding value to the end of an Array:";
             foreach($states AS $i)
             {
                    echo "<br/>$i}";
             }
             array_shift($states);
             echo "<br/>br/><br/>After removing a value to the front of an Array:";
             foreach($states AS $i)
             {
                    echo "<br/>{$i}";
             }
             array_pop($states);
             echo "<br/>br/><br/>After removing a value to the front of an Array:";
             foreach($states AS $i)
             ł
                    echo "<br/>{$i}";
             ł
             $state="Ohio";
             if(in_array($state,$states))
```

echo "
br/>>Not to worry,\$state is smoke free";

?>
</body></html>

OUTPUT:

Array elements are: Ohio New York

After adding values to the front of an Array: California Texas Ohio New York

After adding value to the end of an Array: California Texas Ohio New York Florida

After removing a value to the front of an Array: Texas Ohio New York Florida

After removing a value to the front of an Array: Texas Ohio New York

Not to worry, Ohio is smoke free

EXERCISE NO. 41 : FILE OPERATIONS IN PHP

Aim: To perform file operations in php.

Procedure:

Step1: Create a folder called **PhpExamples**in **E:\XAMP\XAMP\htdocs**.

Step2: Open notepad by invoking

programs ->Accessories -> notepad.

- **Step3:** Type the following php code and save it as **'fileoperations.php'** in **E:\XAMP\XAMP\htdocs\Php Examples.**
- **Step4:** Start tomcat server by invoking E:\XAMP\XAMP\CAMP-controller and press start button of apache.

Step5: Type the url<u>http://localhost:8080/PhpExamples</u> in any browser.

Step6: Select 'fileoperations.php' from the list to execute the program.

```
Sreenivasa Institute Of Technology And Management Studies(Autonomous), Chittoor.
```

TO ILLUSTRATE FILE OPERATIONS IN PHP:

```
<html>
```

```
<head>
```

```
<title>file Operators</title>
```

```
</head>
```

<body>

</body>

</html>

OUTPUT:

File 'my_setting.txt' written successfully

EXERCISE NO.42 : DATE AND TIME FUNCTIONS IN PHP

Aim: To perform date and time functions in php.

Procedure:

Step1: Create a folder called PhpExamplesin E:\XAMP\XAMP\htdocs.

Step2: Open notepad by invoking

programs ->Accessories -> notepad.

- Step3: Type the following php code and save it as 'dateTime.php' in E:\XAMP\XAMP\htdocs\Php Examples.
- **Step4:** Start tomcat server by invoking E:\XAMP\XAMP-controller and press start button of apache.

Step5: Type the url<u>http://localhost:8080/PhpExamples</u> in any browser.

Step6: Select 'dateTime.php' from the list to execute the program.

TO ILLUSTRATE DATE AND TIME FUNCTIONS IN PHP:

<html>

```
<head>
```

<title>Date and Time functions</title>

</head>

<body>

<?php

echo "Time stamp is ".time()."
"; echo "Today is ".date("y/m/d")."
"; echo "The time is ".date("h:i:sa")."
"; date_default_timezone_set("America/New_York"); echo "The Default time is ".date("h:i:sa")."
";

\$d=mktime(11,14,54,10,13,2017); echo "Created date is ".date("y/m/d",\$d)."
";

\$d=strtotime("10:30pm November 25 2017"); echo "Created date and time is ".date("y/m/d h:i:sa",\$d)."
";

\$d=strtotime("next Saturday");
echo "Next Saturday date is ".date("y/m/d h:i:sa",\$d)."
>";

?>

</body> </html>

OUTPUT:

Time stamp is 1510535646Today is 17/11/13The time is 02:14:06amThe Default time is 08:14:06pmCreated date is 17/10/13Created date and time is 17/11/25 10:30:00pmNext Saturday date is 17/11/18 12:00:00am

EXERCISE NO. 43 : NAME SPACES IN PHP

Aim: To illustrate namespace in php.

Step1: Create a folder called PhpExamplesin E:\XAMP\XAMP\htdocs.

Step2: Open notepad by invoking

programs ->Accessories -> notepad.

- **Step3:** Type the following php code and save it as **'nameSpace.php'** in **E:\XAMP\XAMP\htdocs\Php Examples.**
- **Step4:** Start tomcat server by invoking E:\XAMP\XAMP-controller and press start button of apache.

Step5: Type the url<u>http://localhost:8080/PhpExamples</u> in any browser.

Step6: Select 'nameSpace.php' from the list to execute the program.

TO ILLUSTRATE NAMESPACE IN PHP:

lib1.php

```
<html>
    <head>
    </head>
    <body>
        <?php
              // application library 1
              namespace App\Lib1;
              const MYCONST = 'App\Lib1\MYCONST';
              function MyFunction()
                 return FUNCTION ;
              class MyClass
                 static function WhoAmI()
                         return <u>METHOD</u>;
        ?>
     </body>
</html>
lib2.php
<html>
  <head>
  </head>
  <body>
        <?php
                 // application library 2
                 namespace App\Lib2;
                 const MYCONST = 'App\Lib2\MYCONST';
                 function MyFunction()
                  return ____FUNCTION___;
                 class MyClass
                  static function WhoAmI()
                         return <u>METHOD</u>;
        ?>
myapp3.php:
```

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<html> <head> </head> <body> <?php use App\Lib1 as L; use App\Lib2\MyClass as Obj; header('Content-type: text/plain'); require_once('lib1.php'); require_once('lib2.php'); echo L\MYCONST . "\n"; echo L\MyFunction() . "\n"; echo L\MyClass::WhoAmI() . "\n"; echo Obj::WhoAmI() . "\n"; ?> </body> </html>

OUTPUT:

App\Lib\MYCONST App\Lib\MYFunction App\Lib\MYClass::WhoAmI

EXERCISE NO.44 : CLASS OBJECT ILLUSTRATION IN PHP

Aim: To illustrate class-object concept in php.

Procedure:

Step1: Create a folder called **PhpExamples**in **E:\XAMP\XAMP\htdocs**.

Step2: Open notepad by invoking

programs ->Accessories -> notepad.

- **Step3:** Type the following php code and save it as **'classObject.php'** in **E:\XAMP\XAMP\htdocs\Php Examples.**
- **Step4:** Start tomcat server by invoking E:\XAMP\XAMP\CAMP-controller and press start button of apache.

Step5: Type the url<u>http://localhost:8080/PhpExamples</u> in any browser.

Step6: Select 'classObject.php' from the list to execute the program.

TO ILLUSTRATE CLASS-OBJECT CONCEPT IN PHP:

```
<html>
      <head>
            <title>ClassDemo</title>
      </head>
      <body>
            <?php
                  class Employee
                  {
                         public $name;
                         public $age;
                         public function setDetails($x,$y)
                               $this->name=$x;
                               $this->age=$y;
                         }
                         public function getDetails()
                         ł
                               echo "Employee Name:$this->name";
                               echo "<br/>';
                               echo "Employee Age:$this->age";
                         }
                  }
                  $emp=new Employee();
                  $emp->setDetails("ram","29");
                  $emp->getDetails();
            ?>
      </body>
</html>
```

OUTPUT:

Employee Name: ram Employee Age:29

EXERCISE NO. 45 : INHERITANCE ILLUSTRATION IN PHP

Aim: To illustrate inheritance concept in php.

Procedure:

Step1: Create a folder called **PhpExamples**in **E:\XAMP\XAMP\htdocs**.

Step2: Open notepad by invoking

programs ->Accessories -> notepad.

- **Step3:** Type the following php code and save it as **'inheritance.php'** in **E:\XAMP\XAMP\htdocs\Php Examples.**
- **Step4:** Start tomcat server by invoking E:\XAMP\XAMP-controller and press start button of apache.

Step5: Type the url<u>http://localhost:8080/PhpExamples</u> in any browser.

Step6: Select 'inheritance.php' from the list to execute the program.

TO ILLUSTRATE SINGLE INHERITANCE CONCEPT IN PHP:

```
<html>
```

```
<head>
              <title>Inheritance Concepts</title>
       </head>
       <body>
              <?php
                      class Car
                      {
                             public $model;
                             public function setModel($a)
                                     $this->model=$a;
                              ł
                             public function getModel()
                                    return $this->model;
                      }
                      class SportsCar extends Car
                             public $style;
                             public function setStyle($b)
                             {
                                     $this->style=$b;
                                    return 'Car name:'.$this->getModel().'<br/>'.'Car
                                            Model:'.$this->style;
                             }
                      $obj=new SportsCar();
                      $obj->setModel('Ferrari');
                      echo $obj->setStyle('F15');
              ?>
       </body>
</html>
```

OUTPUT:

Car name:Ferrari Car Model:F15

EXERCISE NO. 46 : INTERFACE ILLUSTRATION IN PHP

Aim: To illustrate interface concept in php.

Procedure:

Step1: Create a folder called **PhpExamples**in **E:\XAMP\XAMP\htdocs**.

Step2: Open notepad by invoking

programs ->Accessories -> notepad.

- **Step3:**Type the following php code and save it as **'interfaceDemo.php'** in **E:\XAMP\XAMP\htdocs\Php Examples.**
- **Step4:** Start tomcat server by invoking E:\XAMP\XAMP\CAMP-controller and press start button of apache.

Step5: Type the url<u>http://localhost:8080/PhpExamples</u> in any browser.

Step6: Select 'interfaceDemo.php' from the list to execute the program.

TO ILLUSTRATE AN INTERFACE IN PHP:

```
<html>
```

```
<head>
      <title>Interface Concepts</title>
</head>
<body>
      <?php
             interface Deposit
             ł
                   public function interest();
             class Simple implements Deposit
                   public $p;
                   public $t;
                   public $r;
                   public function Simple1($a,$b,$c)
                          $this->p=$a;
                          $this->t=$b;
                          $this->r=$c;
                   }
                   public $sim;
                   public $stot;
                   public function interest()
                   ł
                          $this->sim=($this->p*$this->t*$this->r)/100;
                          echo "Simple interest:$this->sim<br/>br/>";
                          $this->stot=$this->sim+$this->p;
                          return $this->stot;
                   }
             }
             class Compound extends Simple implements Deposit
                   public $com;
                   public $ctot;
                   public function compound1($a,$d,$q)
                   ł
                          parent::simple1($a,$d,$q);
                   public function interest()
                   tis->com=tis->p*pow((1+tis->r)/100,tis->t);
                          echo "Compound interest:$this->com<br/>br/>";
                          $this->ctot=$this->p+$this->com;
                   return $this->ctot;
                   }
```

}

```
$p=new Simple();
$p->simple1(10000,2,3);
$a=$p->interest();
echo "Principle with simple interest:$a<br/>br/>";
$q=new Compound();
$q->compound1(10000,2,3);
$b=$q->interest();
echo "Principle with compound interest:$b";
```

```
</body>
</html>
```

?>

OUTPUT:

Simple interest:600 Principle with simple interest:10600 Compound interest:16 Principle with compound interest:10016