OPEN SOURCE SOFTWARE LAB MANUAL

For BTech CSE (July to Dec 2024)

Course Code : 18B17CI507 **L T P : 0 0 2**

OBJECTIVE :

- The course aims to introduce open source software concept to students. Students will study and learn to setup open source account, understand Project structure and enhance open source projects. It will develop skill to make a significant contribution to open source community.

OUTCOMES:

- Carry out Research and Development in the areas of Open Source Technologies
- To gain knowledge on designing static and dynamic web pages.
- Able to validate web pages at client-side.
- Design and validate XML documents.
- Gain knowledge on server side scripting.
- To develop a business application using STRUTS.

Course Outcome	Description
CO1	Demonstrate knowledge of the building blocks of Open Source software's used for web development.
CO2	Analyze and formalize the design of a web application by using different search techniques/tools.
CO3	Develop static and dynamic design of web application.
CO4	Attain the capability to represent various domains using OSS based techniques and use this to perform inference.
CO5	Formulate and solve problems with uncertain information using OOS tools.

Hardware and Software required:

- A working computer system with either Windows or Linux
- A web browser either IE or firefox
- Tomcat web server and Apache web server
- XML editor like Altova Xml-spy [www.Altova.com/XMLSpy – free] , Stylusstudio , etc.,
- A database either Mysql or Oracle
- JVM(Java virtual machine) must be installed on your system
- BDK(Bean development kit) must be also be installed

Week-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.

Logo	Web Site Name			
Home	Login	Registration	Catalogue	Cart
CSE ECE EEE CIVIL	Description of the Web Site			

2) LOGIN PAGE:

This page looks like below:

Logo	Web Site Name			
Home	Login	Registration	Catalogue	Cart
CSE ECE EEE CIVIL	Login : Password: Submit Reset			

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:

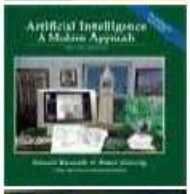
1. Snap shot of Cover Page.

2. Author Name.

3. Publisher.

4. Price.

5. Add to cart button.

Logo	Web Site Name			
Home	Login	Registration	Catalogue	Cart
CSE ECE EEE CIVIL		Book : XML Bible Author : Winston Publication : Wiely	$ 40.5	Add to cart
		Book : AI Author : S.Russel Publication : Princeton hall	$ 63	Add to cart
		Book : Java 2 Author : Watson Publication : BPB publications	$ 35.5	Add to cart
		Book : HTML in 24 hours Author : Sam Peter Publication : Sam publication	$ 50	Add to cart

Week-2:

4) CART PAGE:

The cart page contains the details about the books which are added to the cart.

The cart page should look like this:

Logo	Web Site Name				
Home	Login	Registration		Catalogue	Cart
CSE	Book name	Price	Quantity	Amount	
ECE	Java 2	$35.5	2	$70	
EEE	XML bible	$40.5	1	$40.5	
CIVIL	Total amount - $130.5				

5) REGISTRATION PAGE:

Create a "registration form "with the following fields

1) Name (Text field) 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)

Week 3:

VALIDATION:

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

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

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

3. E-mail id (should not contain any invalid and must follow the standard pattern (name@domain.com)

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

Week-4:

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

1) Use different font, styles:

In the style definition you define how each selector should work (font, color etc.). Then, in the body of your pages, you refer to these selectors to activate the styles.

For example:

```
<HTML>
<HEAD>
<style type="text/css">
B.headline {color:red; font-size:22px; font-family:arial; text-
decoration:underline}
</style>

</HEAD>

<BODY>
<b>This is normal bold</b><br>
Selector {cursor:value}

For example:

<html>
<head>
<style type–"text/css">
.xlink {cursor:crosshair}
.hlink{cursor:help}
</style>
</head>

<body>
<b>
<a href="mypage.htm" class="xlink">CROSS LINK</a>
<br>
<a href="mypage.htm" class="hlink">HELP LINK</a>
</b>
</body>
</html>

<b class–"headline">This is headline style bold</b>
</BODY>

</HTML>
```

2) Set a background image for both the page and single elements on the page.

You can define the background image for the page like this:

```
BODY {background-image:url(myimage.gif);}
```

3) Control the repetition of the image with the background-repeat property.

As background-repeat: repeat Tiles the image until the entire page is filled, just like an ordinary background image in plain HTML.

4) Define styles for links as

A:link

A:visited

A:active

A:hover

Example:

<style type="text/css">

A:link {text-decoration: none}

A:visited {text-decoration: none}

A:active {text-decoration: none}

A:hover {text-decoration: underline; color: red;}

</style>

Week-5:

8) 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

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

10) Display the XML file as follows.

The contents should be displayed in a table. The header of the table should be in color GREY. And the Author names column should be displayed in one color and should be capitalized and in bold. Use your own colors for remaining columns.

Use XML schemas XSL and CSS for the above purpose.

Week-6:

11) Install TOMCAT web server and APACHE.

While installation assign port number 4040 to TOMCAT and 8080 to APACHE. Make sure that these ports are available i.e., no other process is using this port.

12) Access the above developed static web pages for books web site, using these servers by putting the web pages developed in week-1 and week-2 in the document root.

Access the pages by using the urls : http://localhost:4040/rama/books.html (for tomcat)

http://localhost:8080/books.html (for Apache)

Week-7:

13) User Authentication: Write a Servlet which does the following job: Insert the details of the 3 or 4 users who register with the web site (week9) by using registration form. Authenticate the user when he submits the login form using the user name and password from the database

Week-8:

14) 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.

15) 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).

Week-9:

16) Write a JSP which does the following job: Insert the details of the 3 or 4 users who register with the web site (week9) by using registration form. Authenticate the user when he submits the login form using the user name and password from the database

Week-10:

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

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

Week-11:

18) Create and Run struts application and validate it using struts components.

19) Write a simple servlet that displays a message.

Week-12:

20) Write a servlet that reads parameters from employee login page.

21) Write a servlet for creating a cookie and retrieving it.

Week-13:

22) Write a servlet for session tracking.

23) Write a servlet that connects to the database and retrieves the data and displays it.

Week-14:

24) Write a JSP that reads parameters from user login page.

25) Write a JSP that reads a value, creates a cookie and retrieves it.

26) Write a JSP for session tracking.

REFERENCES:

1. HTML Black Book – Steve Holzner.

2. The complete Reference Java 2 Fifth Edition by Patrick Naughton and Herbert Schildt. TMH

3. Java Server Pages –Hans Bergsten, SPD O'Reilly

Lab Exercises for the practice purpose only, These exercise will not be the part of Lab Record.

1. Write a HTML program for the demonstration of Lists.
    a. Unordered List
    b. Ordered List
    c. Definition List
    d. Nested List

2. Write a HTML program for demonstrating Hyperlinks.
    a. Navigation from one page to another.
    b. Navigation within the page.

3. Write a HTML program for time-table using tables.

4. Write a HTML program to develop static Home Page using frames.

5. Write a HTML program to develop a static Registration Form.

6. Write a HTML program to develop a static Login Page.

7. Write a HTML program to develop a static Web Page for Catalog.

8. Write a HTML program to develop a static Web Page for Shopping Cart.

9. Write HTML for demonstration of cascading stylesheets.
    a. Embedded stylesheets.
    b. External stylesheets.

c. Inline styles.

10. Write a javascript program to validate USER LOGIN page.
11. Write a javascript program for validating REGISTRATION FORM
12. Write a program for implementing XML document for CUSTOMER DETAILS.
13. Write an internal Document Type Definition to validate XML for CUSTOMER DETAILS?
14. Write an external Document Type Definition to validate XML for CUSTOMER DETAILS?
15. Write an XML for person information and access the data using XSL.
16. Write an XML for student information and access second students data using DOM.
17. Write a program to display contents of XML file in a table using Extensible Style Sheets.
18. Write a simple servlet that displays a message.

Solutions:

1. Write a HTML program for the demonstration of Lists.

a. Unordered List

b. Ordered List

c. Definition List

d. Nested List

Unordered List:

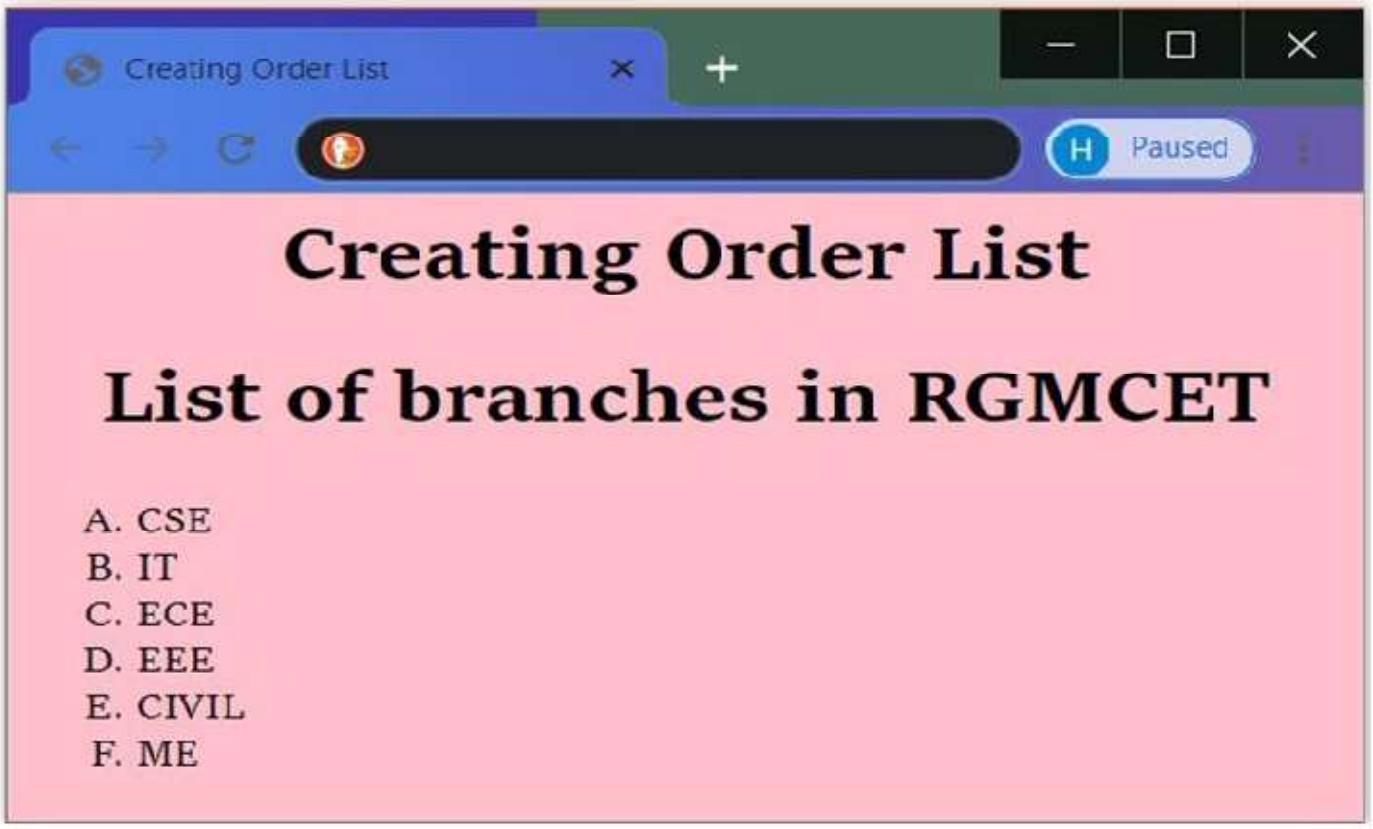
```
<html>
<head>
        <title> Creating Unorder List </title>
</head>
<body bgcolor=”pink”>
        <h1 align=”center”> Creating Unorder List</h1>
        <h1 align=”center”>List of Colleges in Kurnool</h1>
<ul type=”square”>
        <li>GPREC</li>
        <li>RGMCET</li>
        <li>GPCET</li>
</ul>
</body>
</html>
```

Sample Output:

Ordered List:

```
<html>
<head>
<title> Creating Order List </title>
</head>
<body bgcolor=”pink”>
<h1 align=”center”> Creating Order List</h1>
<h1 align=”center”>List of branches in RGMCET</h1>
<ol type=”A”>
        <li>CSE</li>
        <li>IT</li>
        <li>ECE</li>
        <li>EEE</li>
        <li>CIVIL</li>
        <li>ME</li>
    </ol>
</body>
</html>
```

Sample Output:



Definition List:

```
<html>
<head>
<title>Creating Definition List</title>
</head>
<body bgcolor=”pink”>
        <h1 align=”center”>Definition List</h1>
        <dl>
                <dt>CSE<dd>Computer Science & Engineering
                <dt>ECE<dd>Electronics & Communication Engineering
                <dt>IT<dd>Information Technology
                <dt>EEE<dd>Electrical & Electronics Engineering
                <dt>CE<dd>Civil Engineering
        </dl>
  </body>
</html>
```

Sample Output:

Nested List:

```
<html>
<head>
<title>Nested Lists</title>
</head>
<body bgcolor=”pink”>
<h1 align=”center”>List of Colleges in Kurnool</h1>
<ol>
<li>Kurnool</li>
<ul>
<li>GPREC</li>
<li>BITS</li>
<li>GPCET</li>
</ul>
        <li>Nandyala</li>
        <ul>

            <li>RGMCET</li>
            <li>SREC</li>
        </ul>
```

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

Sample Output:

2. Write a HTML program for demonstrating Hyperlinks.

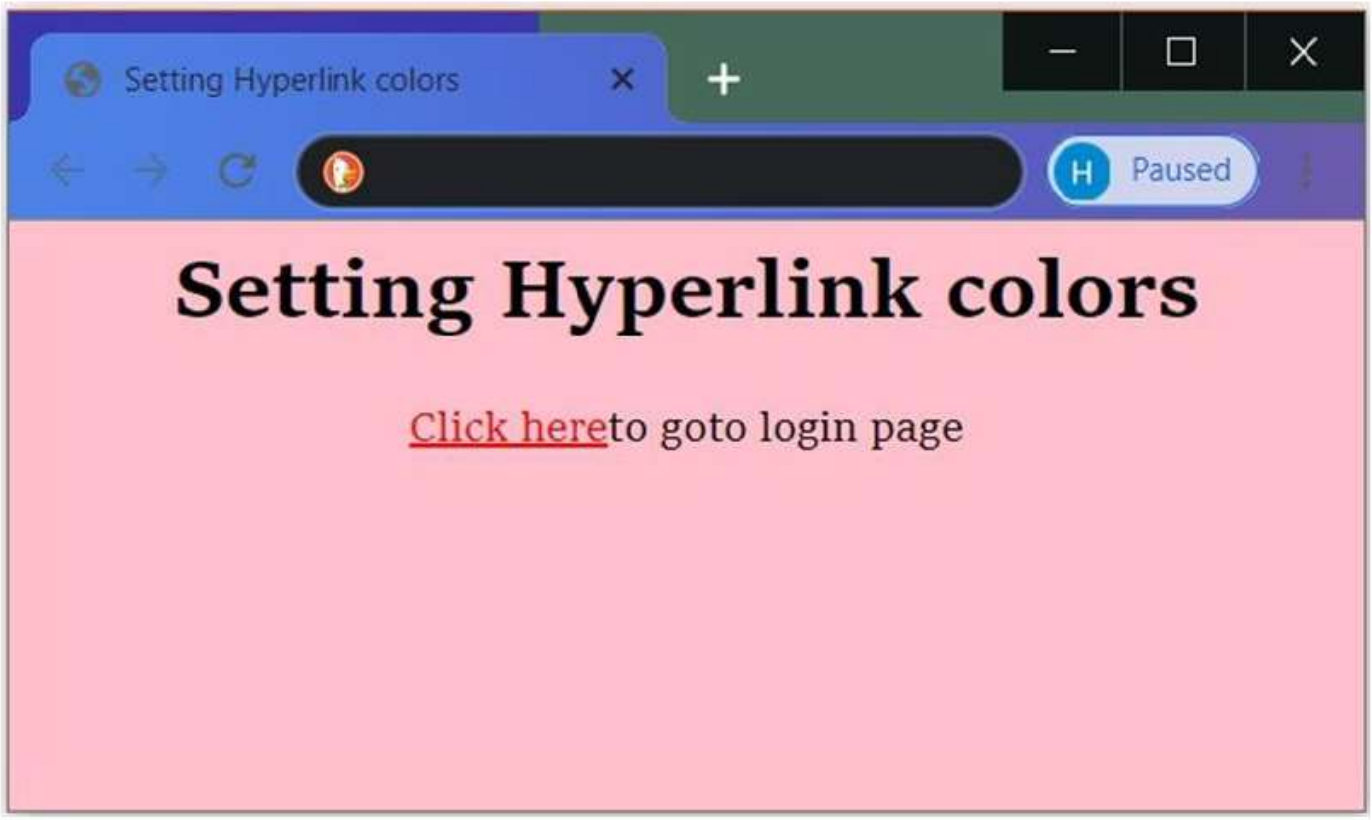
a. Navigation from one page to another.

b. Navigation within the page.

a. **Navigation from one page to another:**

```
<html>
<head>
<title>Setting Hyperlink colors</title>
</head>
<body bgcolor="pink" link=”green” vlink=”blue” alink=”red”>
<center><h1>Setting Hyperlink colors</h1>
<a href=”login.html”>Click here</a>to goto login page
</body>
</html>
```

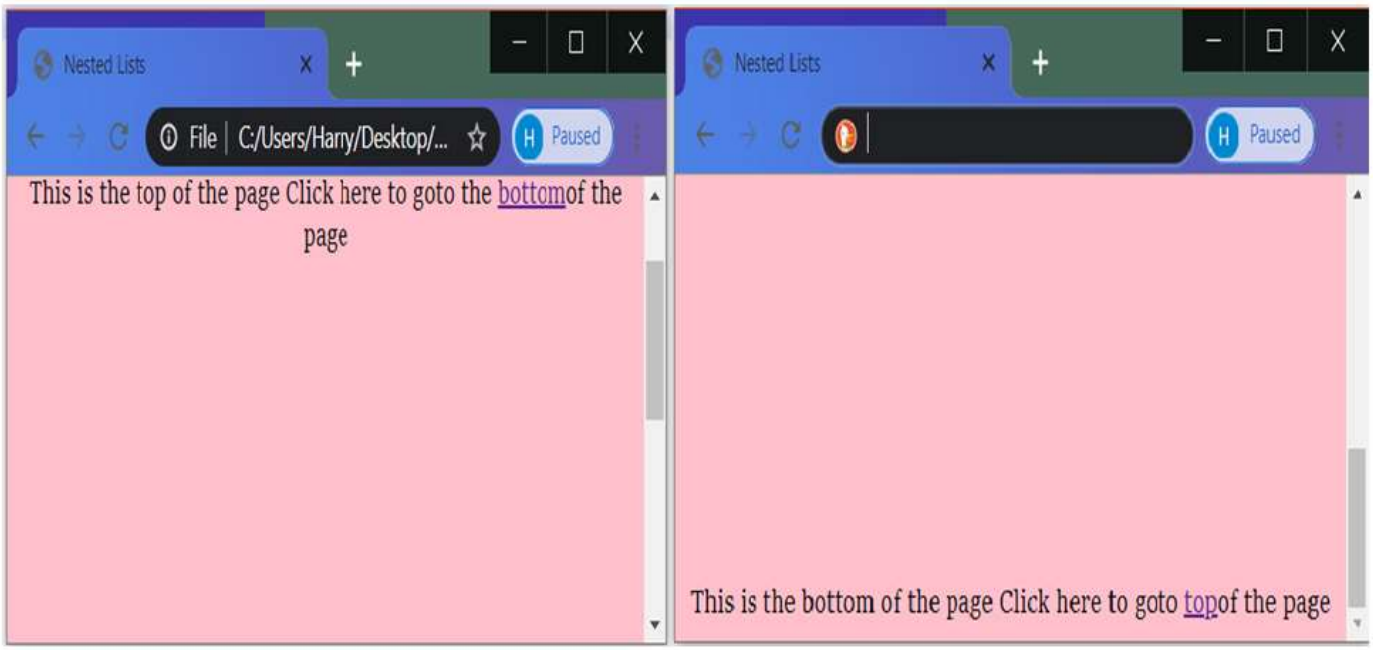
Sample Output:



b. Navigation within the page:

```
<html>
<head>
<title>Nested Lists</title>
</head>
<body bgcolor="pink">
<center><h1>Linking to a section in a page</h1>
<a name=”top”>This is the top of the page</a>
Click here to goto the <a target=”#bottom”>bottom</a>of the page
<br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br>
<br><br><br><br><br>
<a name=”bottom”>This is the bottom of the page</a> Click here to goto <a target=”#top”>top</a>of the
page
</center>
</body>
</html>
```

Sample Output:

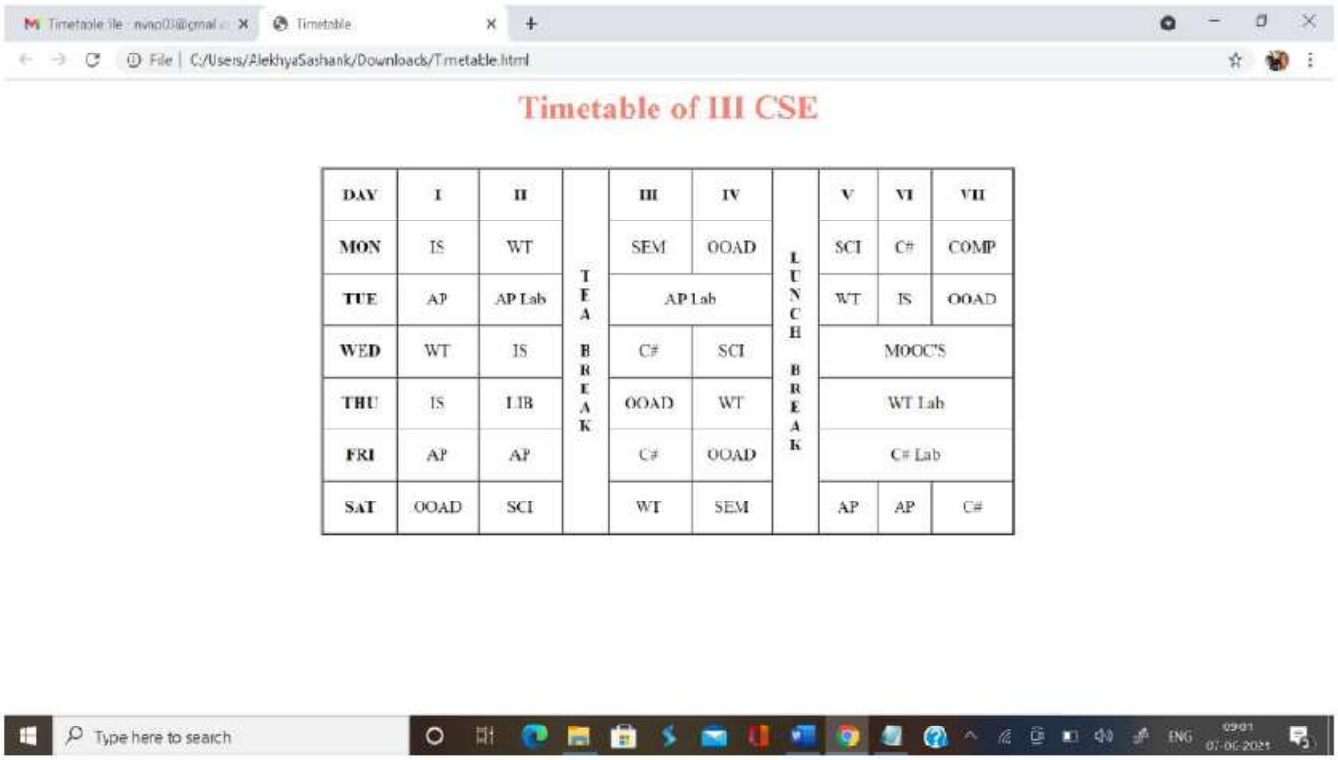


3. Write a HTML program for time-table using tables.

```
<html>
	<head>
		<title>Timetable</title>
	</head>
	<body>
		<h1 align="center"><font color="Salmon">Timetable of III CSE</font></h1><br>
		<table align="center" border="2" cellspacing="0" cellpadding="15">
			<tr align="center" valign=="middle">
				<th>DAY</th>
				<th>I</th>
				<th>II</th>
				<th
 rowspan="7"><b>T<br>E<br>A<br><br>B<br>R<br>E<br>A<br>K</b></th>
				<th>III</th>
				<th>IV</th>
				<th
rowspan="7"><b>L<br>U<br>N<br>C<br>H<br><br>B<br>R<br>E<br>A<br>K</b></th>
				<th>V</th>
				<th>VI</th>
				<th>VII</th>
				</tr>
			<tr align="center">
				<th>MON</th>
				<td>IS</td>
				<td>WT</td>
				<td>SEM</td>
				<td>OOAD</td>
```

```
                    <td>SCI</td>
                    <td>C#</td>
                    <td>COMP</td>
                </tr>
                <tr align="center">
                    <th>TUE</th>
                    <td>AP</td>
                    <td>AP Lab</td>
                    <td colspan="2">AP Lab</td>
                    <td>WT</td>
                    <td>IS</td>
                    <td>OOAD</td>
                </tr>
                <tr align="center">
                    <th>WED</th>
                    <td>WT</td>
                    <td>IS</td>
                    <td>C#</td>
                    <td>SCI</td>
                    <td colspan="3">MOOC'S</td>
                </tr>
                <tr align="center">
                    <th>THU</th>
                    <td>IS</td>
                    <td>LIB</td>
                    <td>OOAD</td>
                    <td>WT</td>
                    <td colspan="3">WT Lab</td>
                </tr>
                <tr align="center">

                    <th>FRI</th>
                    <td>AP</td>
                    <td>AP</td>
                    <td>C#</td>
                    <td>OOAD</td>
                    <td colspan="3">C# Lab</td>
                </tr>
                <tr align="center">
                    <th>SAT</th>
                    <td>OOAD</td>
                    <td>SCI</td>
                    <td>WT</td>
                    <td>SEM</td>
                    <td>AP</td>
                    <td>AP</td>
                    <td>C#</td>
                </tr>
            </table>
        </body>
</html>
```

Sample Output:



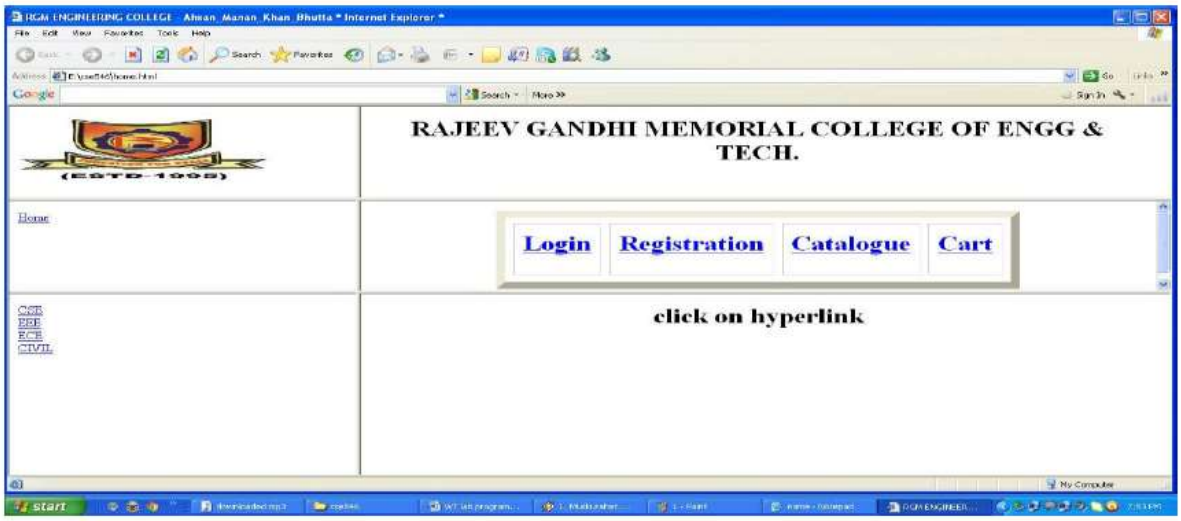
Timetable of III CSE

DAY	I	II	TEA BREAK	III	IV	LUNCH BREAK	V	VI	VII
MON	IS	WT		SEM	OOAD		SCI	C#	COMP
TUE	AP	AP Lab		AP Lab			WT	IS	OOAD
WED	WT	IS		C#	SCI		MOOC'S		
THU	IS	LIB		OOAD	WT		WT Lab		
FRI	AP	AP		C#	OOAD		C# Lab		
SAT	OOAD	SCI		WT	SEM		AP	AP	C#

4. Write a HTML program to develop a static Home Page using frames.

```
<html>
<head>
<title>RGM ENGINEERING COLLEGE</title>
</head>
<frameset cols="30%,70%">
<frameset rows="25%,25%,50%">
<frame src="e:\cse546\logo.html">
<frame src="e:\cse546\home1.html">
<frame src="e:\cse546\courses.html">
</frameset>
<frameset rows="25%,25%,50%">
<frame src="e:\cse546\name.html">
<frame src="e:\cse546\table.html">
<frame src="e:\cse546\default.html" name="display">
</frameset>
</frameset>
</html>
```

Sample Output:



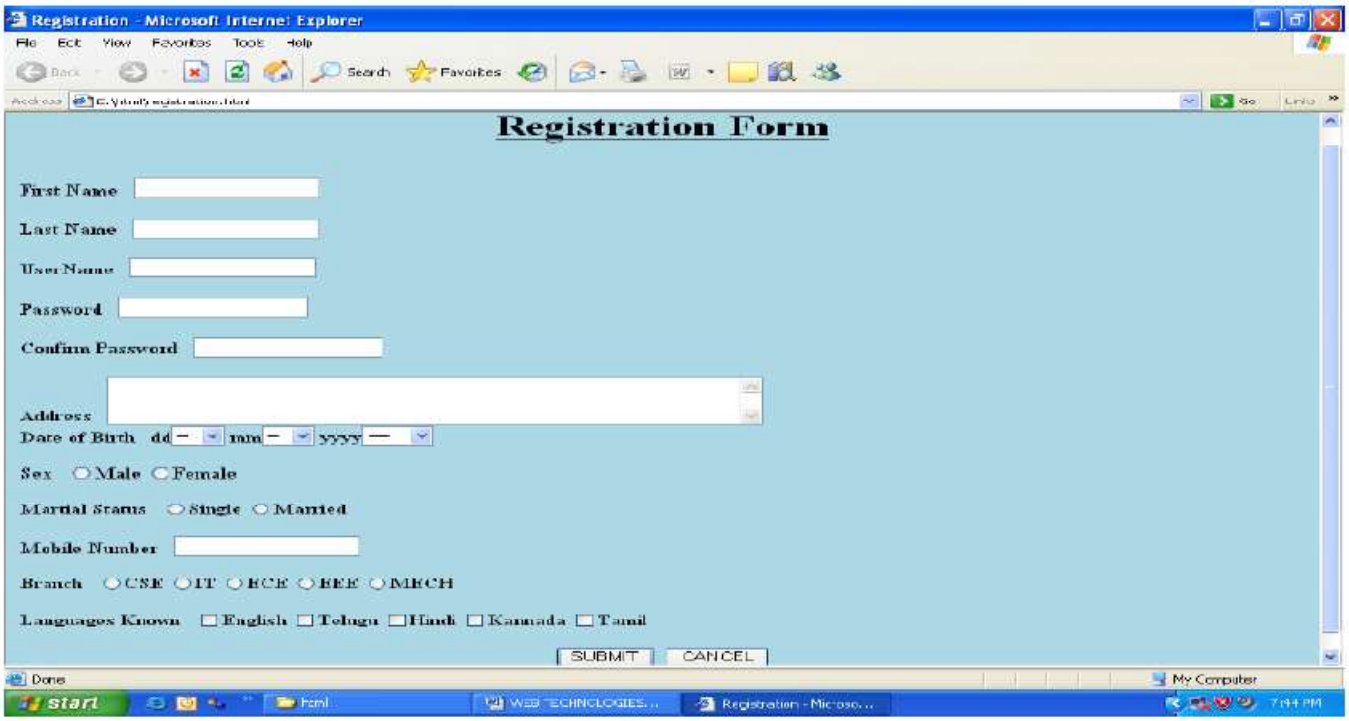
5. Write a HTML program to develop a static Registration Form.

```
<html>
	<head>
		<title>Registration</title>
	</head>
		<body bgcolor=lightblue>
		<h1 align=center><u>Registration Form</u></h1>
		<br><br><br>
	<div>
	<strong>
		First Name   <input type=text value=" " name="txt1"><br><br>
		Last Name   <input type=text value=" " name="txt2"><br><br>
		UserName   <input type=text value="" name="txt3"><br><br>
		Password   <input type=password value="" name="pwd1"><br>
		Confirm Password   <input type=password value="" name="pwd2"><br><br>
		Address   <textarea rows=3 cols=60></textarea><br><br>
		Date of Birth  
dd<select name="sel1">
	<option>--</option>
	<option>01</option>
	<option>02</option>
	<option>03</option>
	<option>04</option>
	<option>05</option>
	<option>27</option>
	<option>28</option>
	<option>29</option>
	<option>30</option>
	<option>31</option>
</select>

mm<select name="sel2">
	<option>--</option>
	<option>01</option>
	<option>02</option>
	<option>03</option>
```

```
        <option>04</option>
        <option>05</option>
        <option>06</option>
        <option>07</option>
        <option>08</option>
        <option>09</option>
        <option>10</option>
        <option>11</option>
        <option>12</option>
</select>
yyyy<select name="sel3">
        <option>----</option>
        <option>1987</option>
        <option>1988</option>
        <option>1989</option>
        <option>1990</option>
        <option>1991</option>
        <option>1992</option>
        <option>1993</option>
        <option>1994</option>
        <option>1995</option>
        <option>1996</option>
        <option>1997</option>
        <option>1998</option>
        <option>1999</option>

        <option>2000</option>
        <option>2001</option>
        <option>2002</option>
        <option>2003</option>
        <option>2004</option>
        <option>2005</option>
        <option>2006</option>
        <option>2007</option>
        <option>2008</option>
        <option>2009</option>
        <option>2010</option>
        <option>2011</option>
        <option>2012</option>
        <option>2013</option>
        <option>2014</option>
        <option>2015</option>
        <option>2016</option>
        <option>2017</option>
        </select><br><br>
Sex  
        <input name="rb1" type="radio" value="radiobutton">Male
        <input name="rb1" type="radio" value="radiobutton">Female
        <br><br>
Martial Status  
        <input name="rb2" type="radio" value="radiobutton">Single
```

```
        <input name="rb2" type="radio" value="radiobutton">Married
        <br><br>
Mobile Number   <input type=text name="txt4"><br><br>
Branch  
        <input name="rb3" type="radio" value="radiobutton">CSE

        <input name="rb3" type="radio" value="radiobutton">IT
        <input name="rb3" type="radio" value="radiobutton">ECE
        <input name="rb3" type="radio" value="radiobutton">EEE
        <input name="rb3" type="radio" value="radiobutton">MECH
        <br><br>
Languages Known  
        <input name="cb1" type="checkbox" value="checkbox">English
        <input name="cb1" type="checkbox" value="checkbox">Telugu
        <input name="cb1" type="checkbox" value="checkbox">Hindi
        <input name="cb1" type="checkbox" value="checkbox">Kannada
        <input name="cb1" type="checkbox" value="checkbox">Tamil

        <br><br>
        <center>
        <input type=submit value="SUBMIT" name="btn1"> 
        <input type=reset value="CANCEL" name="btn1">
        </center>
        </strong>
</body>
</html>
```

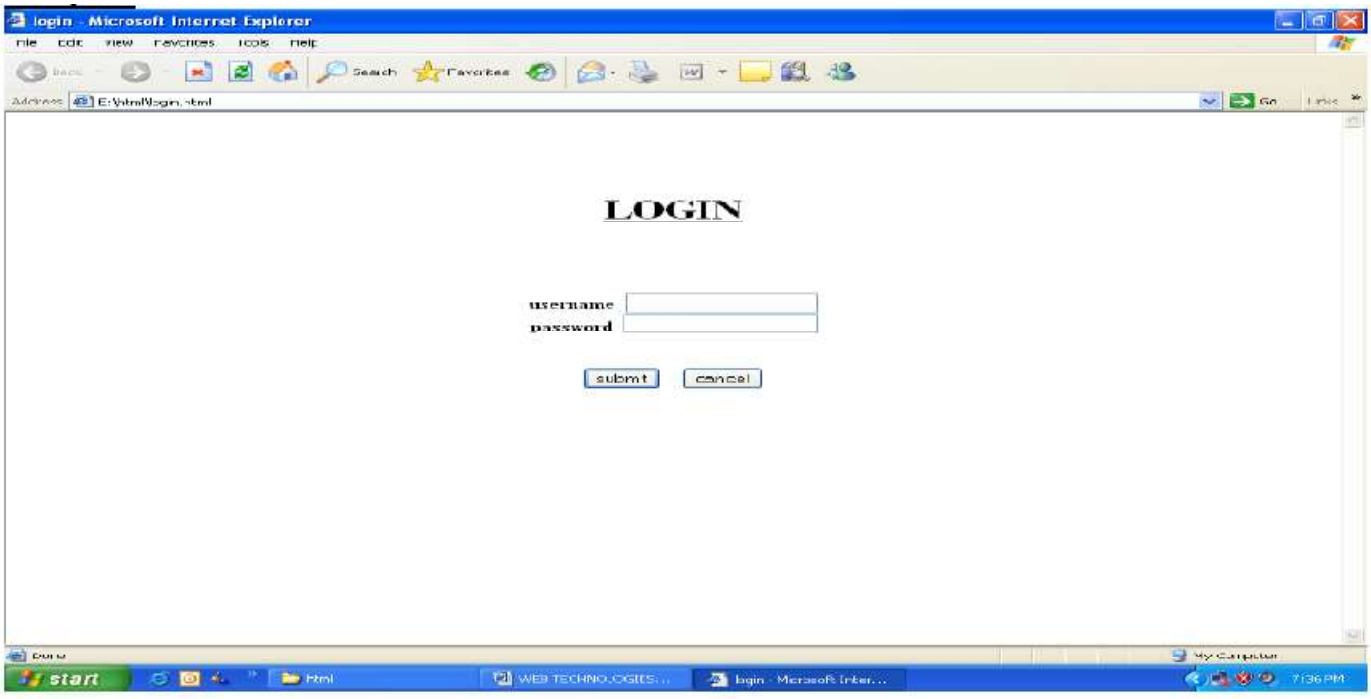
Sample Output:



6. Write a HTML program to develop a static Login Page.

```
<html>
<head>
<title>login</title>
</head>
<body>
<br><br><br><br>
<h1 align=center><u>LOGIN</u></h1>
<br><br><br>
<h4>
<center>
username  <input type=text><br>
password  <input type=password><br><br><br>
</h4>
<input type=submit value=submit>
  
<input type=reset value=cancel>
</center>
</body>
</html>
```

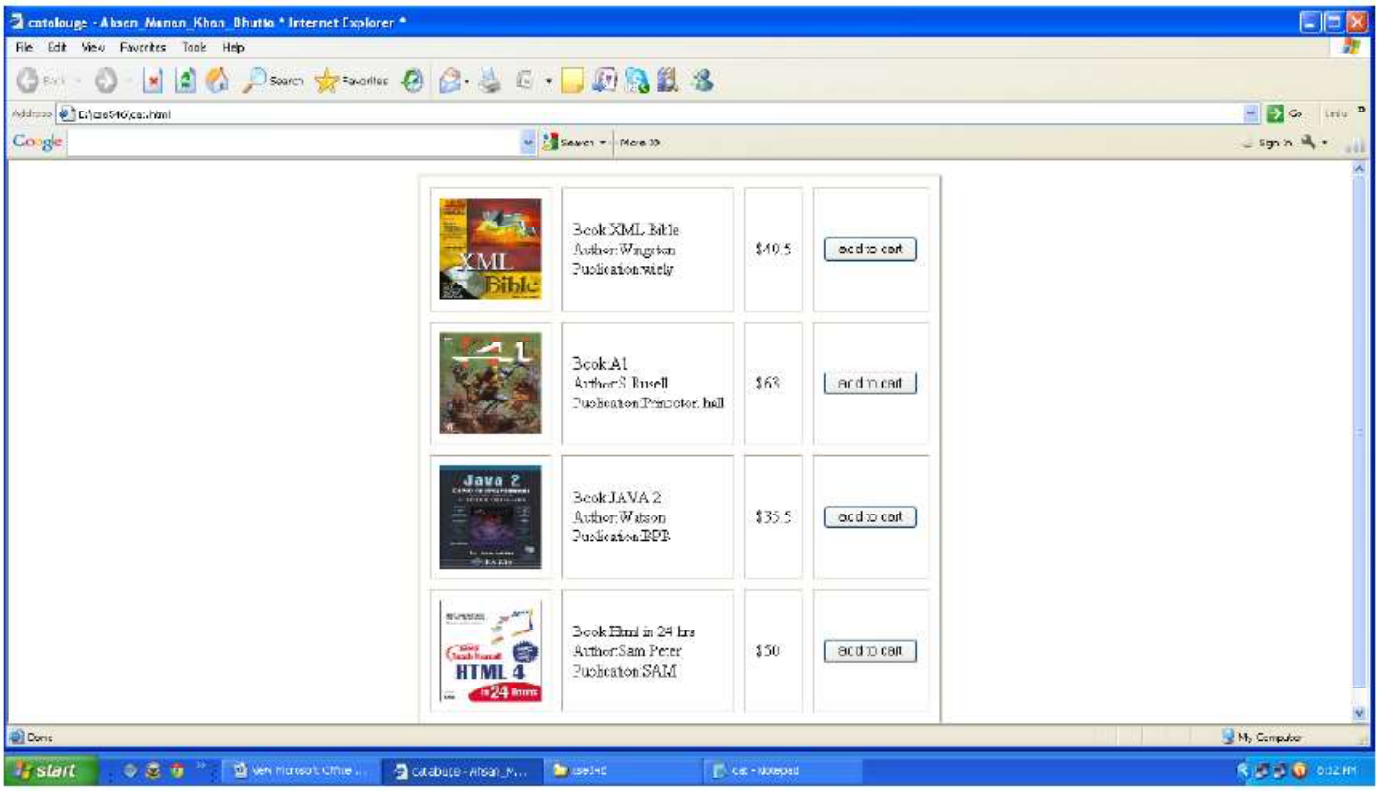
Sample Output:



7. Write a HTML program to develop a static Web Page for Catalog.

```
<html>
<head>
<title>catalouge</title>
</head>
<body>
<center>
<table border=2 cellpadding=10 cellspacing=10>
<tr>
<td> <img src="D:\cse546\image.jpg"height=100 width=100></td>
<td>Book:XML Bible<br>
        Author:Wingston<br>
        Publication:wiely</td>
<td>$40.5</td>
<td><input type="button"value="add to cart"></td>
</tr>
<tr>
<td> <img src="D:\cse546\image1.jpg"height=100 width=100></td>
<td>Book:A1<br>
Author:S.Rusell<br>
Publication:Princeton hall</td>
<td>$63</td>
<td><input type="button"value="add to cart"></td>
</tr>
<tr>
<td> <img src="D:\cse546\image2.jpg"height=100 width=100></td>
<td>Book:JAVA 2<br>
        Author:Watson<br>
        Publication:BPB</td>
<td>$35.5</td>

<td><input type="button"value="add to cart"></td>
</tr>
<tr>
<td> <img src="D:\cse546\image3.jpg"height=100 width=100></td>
<td>Book:Html in 24 hrs<br>
        Author:Sam Peter<br>
        Publication:SAM</td>
<td>$50</td>
<td><input type="button"value="add to cart"></td>
</tr>
</table>
</center>
</body>
</html>
```

Sample Output:



8. Write a HTML program to develop a static Web Page for Shopping Cart.

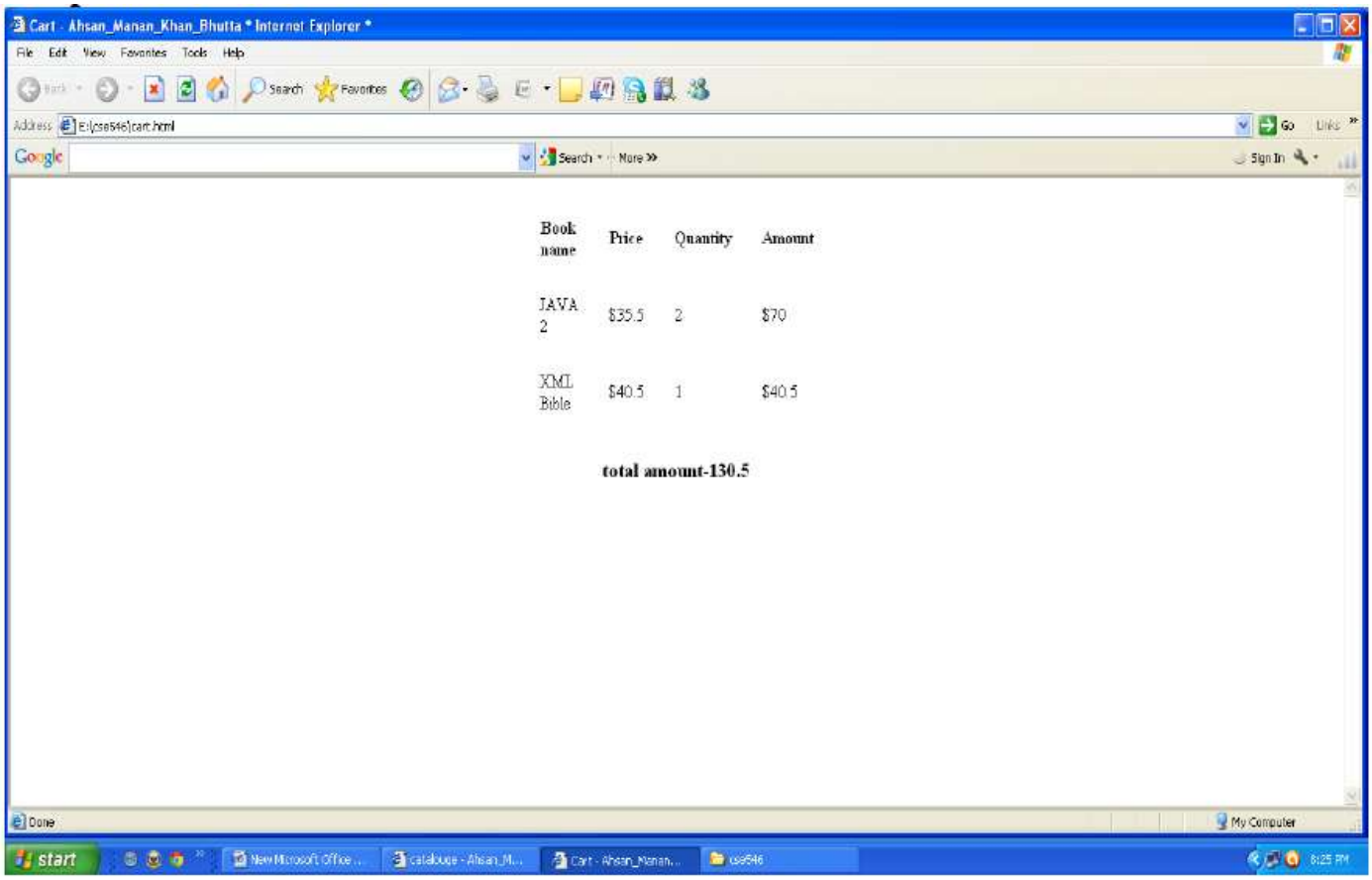
```
<html>
<head>
<title>Cart</title>
</head>
<body>
<center>
<table border=0 width=50 height=10 cellpadding=10 cellspacing=10>
<tr>
<th>Book name</th>
<th>Price</th>
<th>Quantity</th>
<th>Amount</th>
</tr>
<tr>
<td>JAVA 2</td>
<td>$35.5</td>
<td>2</td>
<td>$70</td>
</tr>
<tr>
<td>XML Bible</td>
<td>$40.5</td>
<td>1</td>
<td>$40.5</td>
</tr>
</table>
```

<h3>total amount-130.5</h3>

</body>

</html>

Sample Output:



9. Write HTML for demonstration of cascading stylesheets.

d. Embedded stylesheets.

e. External stylesheets.

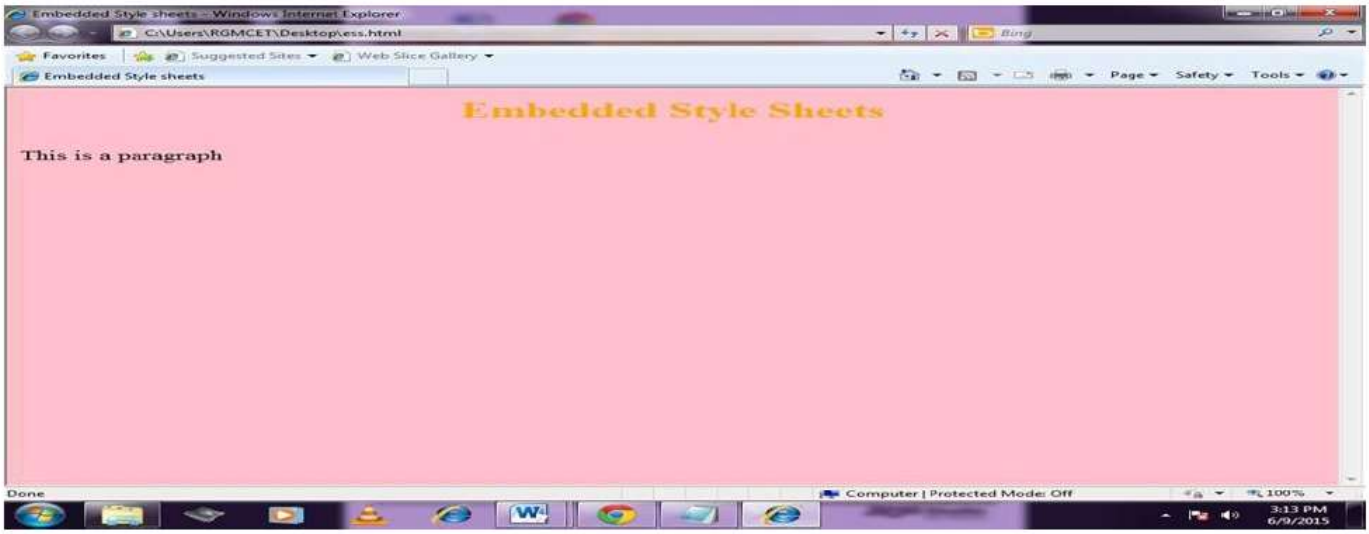
f. Inline styles.

Embedded stylesheets:

```
<html>
        <head>
                <title>Embedded Style sheets</title>
                <style type=”text/css”>
                        body{background-color: pink;}
                        h1
                        {color:orange;
                        text-align
                        : center;
                        }
```

```
                    p {
                    font-family: "Times New Roman";
                    font-size: 20px;
                        }
        </style>
                </head>
                    <body>
                    <h1>Embedded Style Sheets</h1><br>
                    <p>This is a paragraph
                    </body>
</html>
```

Sample Output:



External Stylesheets:

extern.css:

```
body {background-color: #d0e4fe;}
h1 {
color: orange; text-align: center;
}
p {
font-family: "Times New Roman"; font-size: 20px;
}
```

extern.html:

```
<html>
<head>
<title>External Style Sheets</title>
<link rel=”stylesheet” type=”text/css” href=”extern.css”>
</head>
<body>
<h1>External Style Sheets</h1><br>
<p>This is a paragraph
</body>
</html>
```

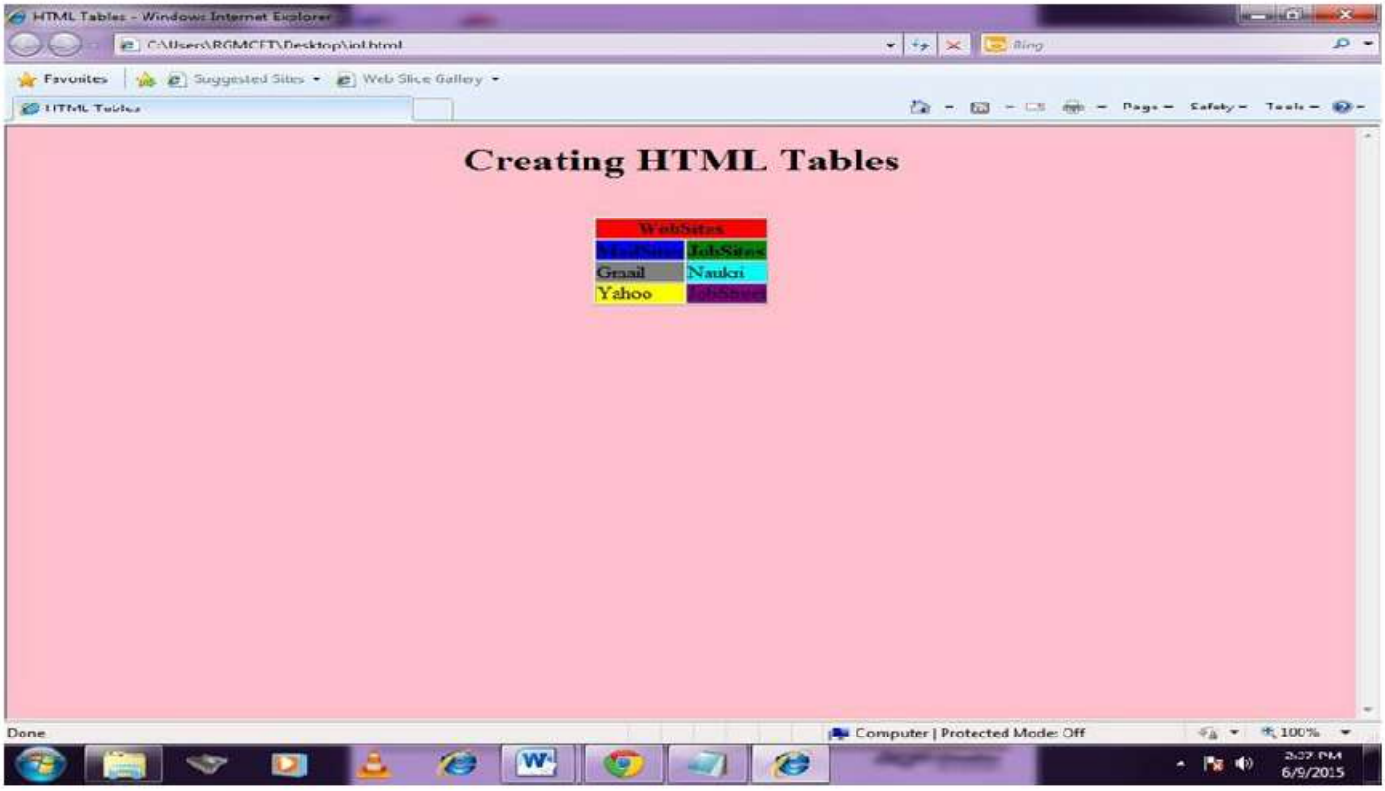
Sample Output:

Inline styles:

```
<html>
        <head>
                <title>HTML Tables</table>
        </head>
        <body bgcolor="pink">
        <center>
                <h1>Creating HTML Tables</h1><br>
                <table border="2" cellpadding="4" cellspacing="4">
        <tr>
                <th colspan="2" style="background-color:red"> WebSites</th>
        </tr>
        <tr>
                <th style="background-color:blue">MailSites</th>
                <th style="background-color:green">JobSites</th>

        </tr>
        <tr>
                        <td style="background-color:grey">Gmail</td>
                        <td style="background-color:aqua">Naukri</td>
                </tr>
                <tr>
                        <td style="background-color:yellow">Yahoo</td>
                        <td style="background-color:purple">JobStreet</td>
                </tr>
                </table>
        </center>
    </body>
```

</html>

Sample Output:



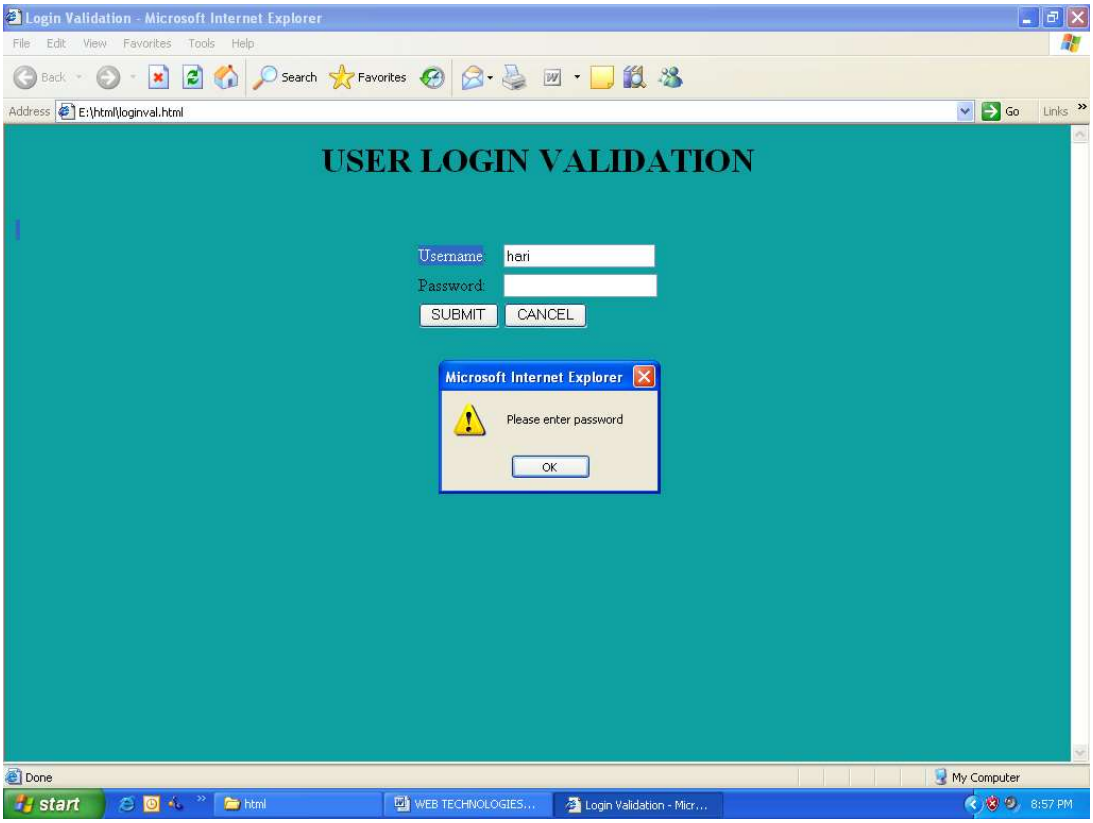
10. Write a javascript program to validate USER LOGIN page.

```
<html>
        <head>
        <title>Login Validation</title>
        <script language="javascript">
        function formValidator()
        {
                var username=document.getElementById('uname');
                var password=document.getElementById('pwd');
                if(isEmpty(username)&&isEmpty(password))
        {
                alert("enter something");
                document.form1.uname.focus();
        }
if(!isEmpty(username)&&isEmpty(password)&&isAlphabet(username))
        {
                alert("Please enter password");
                document.form1.pwd.focus();
        }
if(!isEmpty(username)&&!isEmpty(password)&&isAlphabet(username))
{
return true;
        }
        else
```

```
	{
		if(!isEmpty(username)&&!isEmpty(password)&&!isAlphabet(username))
		{
			alert("Please Enter only alphabets for username");
			document.form1.uname.focus();
		}

	}
	return false;
	}
	 function isEmpty(elem)
	{
		if(elem.value.length==0)
		{
		return true;
	}
		return false;
	}
	function isAlphabet(elem)
	{
	var alphaExp=/^[a-z A-Z]+$/;
		if(elem.value.match(alphaExp))
		{
		return true;
		}
	}
</script>
	</head>
		<body bgColor=megastar>
		<h1 align=center>USER LOGIN VALIDATION</h1>
		<br><br>
		<form name="form1" onSubmit="return formValidator()">
		<center>
		<table border=0 colsSpacing=4>
		<tr>
		<td>Username:</td>
		<td><input type=text value="" name="uname"></td>

		</tr>
		<tr>
	<td>Password:</td>
	<td><input type=password value="" name="pwd"></td>
	</tr>
	<tr>
	<td><input type=submit value="SUBMIT" name="btn1"></td>
	<td><input type=reset value="CANCEL" name="btn2"></td>
	</tr>
	</table>
</center>
	</form>
	</body>
```

</html>

Output:



11. Write a javascript program for validating REGISTRATION FORM.

```
<html>
	<head>
		<title>JavaScript sample registration from validation </title>
		<script type='text/javascript'>
	function formValidation()
	{
		var uid = document.form1.userid;
		var passid = document.form1.passid;
		var uname = document.form1.username;
		var uadd = document.form1.address;
		var uzip = document.form1.zip;
		var uemail = document.form1.email;
		var umsex = document.form1.msex;
		var ufsex = document.form1.fsex;
	if(userid_validation(uid,5,12))
	{
		if(userid_validation(passid,7,12))
		{
			if(allLetter(uname))
			{
				if(alphanumeric(uadd))
					{
```

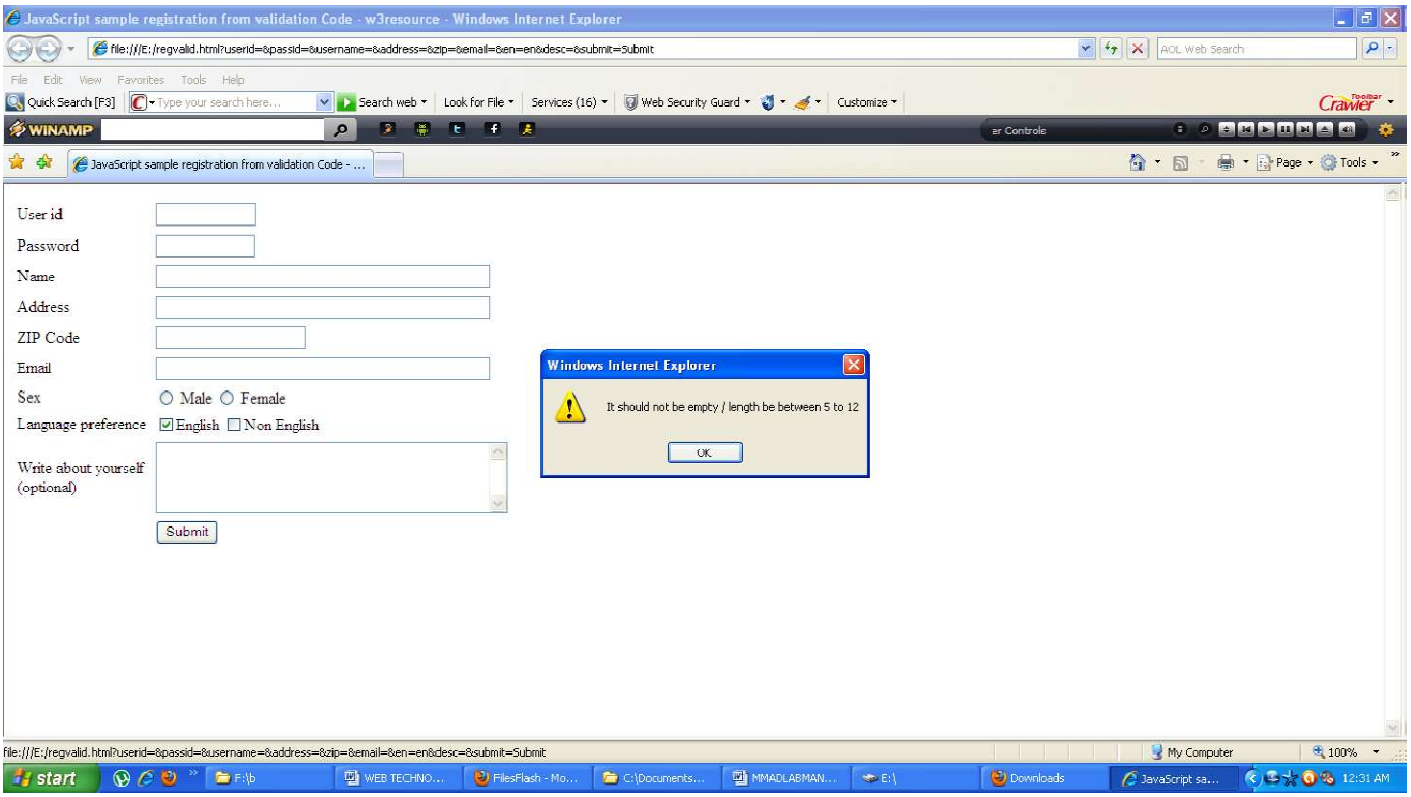
```
                                        if(allnumeric(uzip))
                                        {
                                                if(ValidateEmail(uemail))
                                                {
                                                        if(validsex(umsex,ufsex))
                                                        {
                                                        }

                                                }
                                        }
                                }
                        }
                }
}
return false;
        }
        function userid_validation(uid,mx,my)
        {
                var uid_len = uid.value.length;
                if (uid_len == 0 || uid_len >= my || uid_len < mx)
        {
        alert("It should not be empty / length be between "+mx+" to "+my);
        uid.focus();
        return false;
        }
        return true;
        }
        function allLetter(uname)
        {
                var letters = /^[A-Za-z]+$/;
                if(uname.value.match(letters))
        {
        return true;
        }
        else
        {
                alert('Please input alphabet characters only');
                uname.focus();
                return false;

        }
        }
        function alphanumeric(uadd)
        {
        var letters = /^[0-9a-zA-Z]+$/;
        if(uadd.value.match(letters))
                {
                return true;
                }
        else
        {
        alert('Please input alphanumeric characters only');
```

```
uadd.focus();
return false;
}
}
	function allnumeric(uzip)
{
var numbers = /^[0-9]+$/;
if(uzip.value.match(numbers))
	{
		return true;
	}
else
{
	alert('Please input numeric characters only');
	uzip.focus();
return true;
}
}

function ValidateEmail(uemail)
{
	var mailformat = /^\w+([\.-]?\w+)*@\w+([\.-]?\w+)*(\.\w{2,3})+$/;
	if(uemail.value.match(mailformat))
{
	return true;
}
	else
	{
		alert("You have entered an invalid email address!");
		uemail.focus();
		return false;
	}
	} function validsex(umsex,ufsex)
{
x=0;
if(umsex.checked)
{
	x++;
} if(ufsex.checked)
{
x++;
}
if(x==0)
{
alert('Select Male/Female');
umsex.focus();
return false;
}

else
{
return true;
```

```
        }
        }
</script>
</head>
        <body>
                <form name='form1' onsubmit='return formValidation()' >
                <table width="500" cellpadding="3" style="border-collapse: collapse;">
        <tr>
        <td>User id </td>
        <td><input type="text" name="userid" size="12" /></td>
        </tr>
        <tr>
        <td>Password</td>
        <td><input type="password" name="passid" size="12" /></td>
        </tr>
<tr>
        <td>Name</td>
        <td><input type="text" name="username" size="50" /></td>
        </tr>
<tr>
        <td>Address</td>
        <td><input type="text" name="address" size="50" /></td>
        </tr>
        <tr>
        <td>ZIP Code </td>
        <td><input type="text" name="zip" /></td>

        </tr>
        <tr>
        <td>Email</td>
        <td><input type="text" name="email" size="50" /></td>
        </tr>
        <tr>
        <td>Sex</td>
                <td><input type="radio" name="msex" value="Male" /> Male
        <input type="radio" name="fsex" value="Female" /> Female</td>
        </tr>
                <tr>
        <td>Language preference</td>
                <td><input type="checkbox" name="en" value="en" checked />English
        <input type="checkbox" name="nonen" value="noen" />Non English</td>
        </tr>
        <tr>
        <td>Write about yourself<br>
        (optional)</td>
                <td><textarea name="desc" rows="4" cols="40"></textarea></td>
                </tr>
                <tr>
                <td> </td>
                <td><input type="submit" name="submit" value="Submit" /></td>
                <td> </td>
                </tr>
```

```
	</table>
	</form>
	</body>
</html>
```

Output:



12. Write a program for implementing XML document for CUSTOMER DETAILS.

```
<?xml version="1.0"?>
	<DOCUMENT>
	<CUSTOMER>
		<NAME>
			<FIRST_NAME>Hari</FIRST_NAME>
			<LAST_NAME>Krishna</LAST_NAME>
			</NAME>
			<DATE>10/09/2008</DATE>
			<ORDERS>
				<ITEM>
					<PRODUCT>Mobile Set</PRODUCT>
					<NUMBER>1</NUMBER>
					<PRICE>Rs.14000/-</PRICE>
				</ITEM>
				<ITEM>
					<PRODUCT>Mp3 Player</PRODUCT>
					<NUMBER>1</NUMBER>
					<PRICE>Rs.1300/-</PRICE>
				</ITEM>
			</ORDERS>
```

```
        </CUSTOMER>
                <CUSTOMER>
                        <NAME>
                                <FIRST_NAME>Anil</FIRST_NAME>
                                <LAST_NAME>Kumar</LAST_NAME>
                                </NAME>
                                <DATE>10/09/2008</DATE>
                        <ORDERS>
                                <ITEM>

                                <PRODUCT>Monitor</PRODUCT>
                                <NUMBER>1</NUMBER>
                                <PRICE>Rs.14000/-</PRICE>
                                </ITEM>
                                <ITEM>
                                        <PRODUCT>Washing Machine</PRODUCT>
                                        <NUMBER>1</NUMBER>
                                        <PRICE>Rs.17000/-</PRICE>
                                </ITEM>
                </ORDERS>
        </CUSTOMER>
</DOCUMENT>
```

Output: