Web Technologies Lab Manual

Department of Computer Science Engineering

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Course Name : Web Technologies Lab

Course Number : A55210

Credits : 2

III B Tech – I Semester

(2022-23)

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Vision

To emerge as a frontier in the field of Computer Science and Engineering by producing globally competent professionals to address industrial and societal needs.

Mission

- Imparting knowledge through effective, innovative and research-based teaching and learning processes.
- Providing appropriate solutions for the changing and challenging needs of society.
- Instilling problem-solving, leadership traits, team work and entrepreneurial abilities with devotion and ethical responsibilities.

Programme Educational Objectives (PEO's)

PEO 1: The graduates are employable as software professionals in reputed industries.

PEO 2: The graduates conceive the problems by applying the principles of computer science and domain-based expertise with state-of -art technologies.

PEO 3: The graduates work productively in supportive and leadership roles on multidisciplinary teams with effective communication and team work skills with high regard to legal and ethical responsibilities.

Programme Outcomes (PO's)

1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization for the solution of complex engineering problems.
2. **Problem analysis:** Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. **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 public health and safety, and cultural, societal, and environmental considerations.
4. **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.
5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modelling to complex engineering activities, with an understanding of the limitations.
6. **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.
7. **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.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with the 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.
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.
12. **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.

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Programme Specific Outcomes (PSOs)

Professional Skill: The ability to understand, analyse and develop software solutions.

Problem-Solving Skills: The ability to apply standard principles, practices and strategies for software development.

Successful Research: The ability to conduct research to advance the state-of-the-art in the domain of Computer Science.

Course Outcomes:

- Design static web pages and provide client-side authentication. L3
- Develop new tag sets using XML mechanism.L5
- Understand database connectivity and retrieving data using client/server database. L2
- Design dynamic web pages and develop web applications using MVC architecture. L3

	Program Outcome's												Program Specific Outcome's		
	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**	**PSO1**	**PSO2**	**PSO3**
CO1		2	3	2	3	3		2	1	1	3		3	3	3
CO2	3	3	3	3	3	3	2	2			2		3	3	3
CO3	3	3	3	3		2		2			2		2	3	2
CO4	3	3	3	3	3	2	3	3			3		2	3	2

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Syllabus :

Week-1:

Design the following static web pages required for an online book store web site.

1) HOME PAGE:

2) LOGIN PAGE:

Week -2:

Design the student REGISTRATION PAGE:

Week- 3:

Apply internal and external CSS (Cascading Style Sheets) for week1&2 pages.

Week -4:

VALIDATION:

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

Week -5:

Design the catalogue page.

Week -6:

Write an XML file which will display the Book information which includes the following: Write a Document Type Definition (DTD) to validate the above XML file.

Week -7:

Develop week using bootstrap

Week -8:

Write a program to display the HELLO WORLD message using servlet.

Week -9:

Write a program to create cookies and retrieval using servlet.

Week -10:

Write a program to display the HELLO WORLD message using JSP

Week -11:

Convert all above static web pages into the JSP pages.

Week -12:

Using registration form. Authenticate the user when he submits the login form using the user name and password from the database

Week -13

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 pagein such a way that you should connect to the database and extract data from the tables and display them in the catalogue page using JDBC.

Week -14

Implement week -10 in MVC architecture.

Week-1:

Design the following static web pages required for an online book store web site.

1) HOME PAGE:

2) LOGIN PAGE

Home.html

```
<html>
<head><title>Online Book Store</title></head>
<frameset rows="27%,*%">
        <frame noresize="noresize" src="frame1.html">
        <frameset cols="19%,81%">
                <frame noresize="noresize" src="frame2.html">
                <frame noresize="noresize" src="frame3.html" name="showframe">  </frameset>
</frameset>
</html>
```

Frame1.html

```
<html>
<body bgcolor="pink">
<center><img src="logo.png" alt="AGI"></center>
<table border="2" bordercolor=black align="center" width="100%" height=55>
<tr>
<th><a href="login.html" target="showframe">Login</a></th>
<th><a href="registration.html" target="showframe">Registration</a></th>
<th><a href="catalogue.html" target="showframe">Catalogue</a></th>
<th><a href="cart.html" target="showframe">Cart</a></th>
```

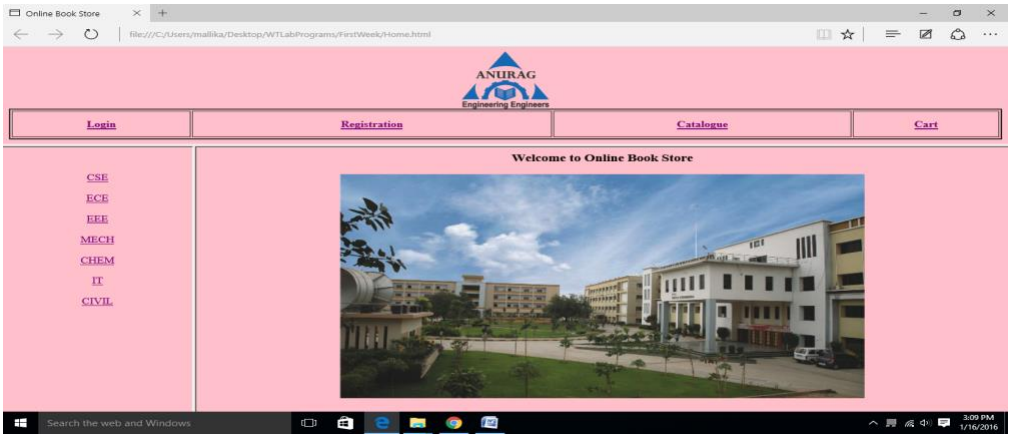
```
</tr>
</table>
</html>
```

Frame2.html

```
<html>
<body bgcolor="pink">
<br><br>
<CENTER><a href="cse.html" target="showframe">CSE</a><br><br>
<a href="ece.html" target="showframe">ECE</a><br><br>
<a href="eee.html" target="showframe">EEE</a><br><br>
<a href="mech.html" target="showframe">MECH</a><br><br>
<a href="chem.html" target="showframe">CHEM</a><br><br>
<a href="it.html" target="showframe">IT</a><br><br>
<a href="civil.html" target="showframe">CIVIL</a></CENTER><br><br>
</body>
</html>
```

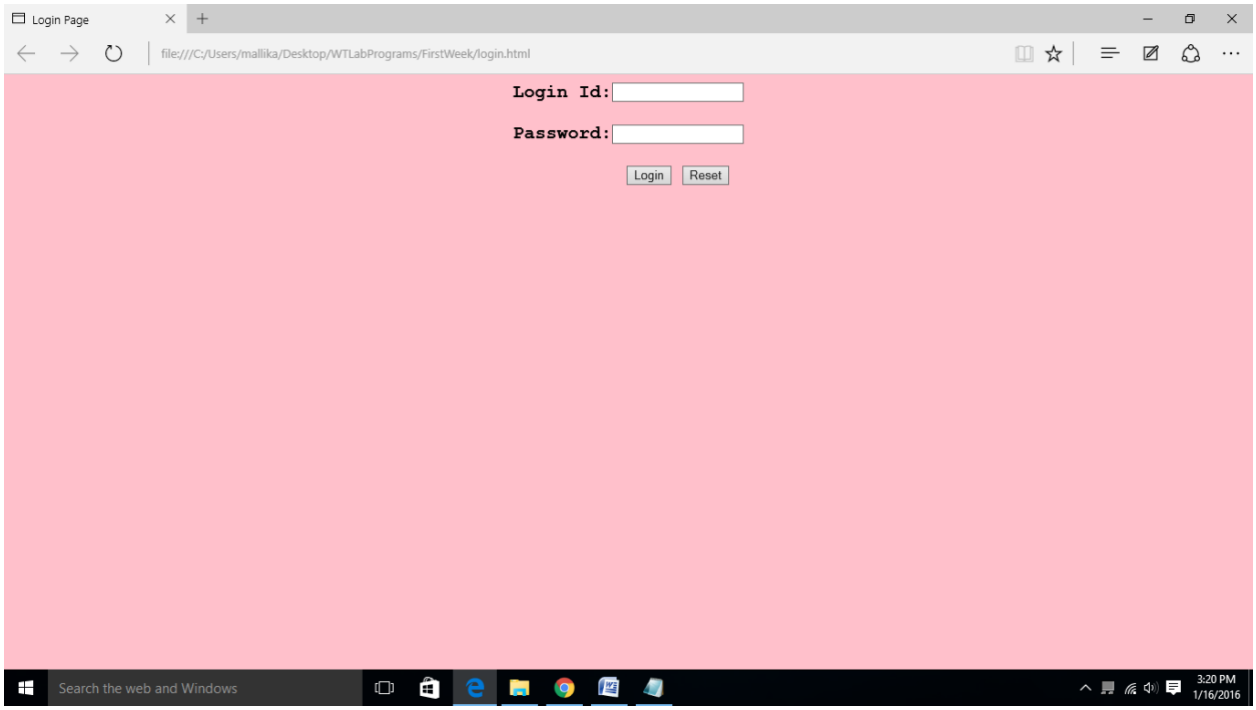
Frame3.html

```
<html>
<body bgcolor="pink">
<center><h3>Welcome to Online Book Store</h3>
<img src="agicover copy.jpg"></center>
</body>
</html>
```



Login.html

```
<html>
<head><title>Login Page</title></head>
<body bgcolor="pink">
<form action="">
<center>
<pre>
<h2>Login Id:<input type="text" name="login"/><br>
Password:<input type="password" name="pwd"/><br>
 <input type="submit" name="sub" value="Login"/>
<input type="button" name="rst" value="Reset"/></h2>
</pre></center>
</form></body>
</html>
```



Week -2:

Design the student REGISTRATION PAGE:

Registration.html

```
<html>
<head>
<title>REGISTRATION FORM</title>
</head>
<body bgcolor="pink">
<h2 align="center">ONLINE REGISTRATION</h2>
<hr align="center" width="100%" />
<table align="center" cellspacing="12">
<tr>
<td align="right">First name:<font color="red"><sup>*</sup></font></td>
```

```
<td align="left"><input type="text" maxlength="40" size="35" name="fname">
</tr>
<tr>
<td align="right">Last name:<font color="red"><sup>*</sup></font></td>
<td align="left"><input type="text" maxlength="40" size="35" name="lname">
</tr>
<tr>
<td align="right">PassWord:<font color="red"><sup>*</sup></font></td>
<td align="left"><input type="PassWord" maxlength="40" size="35" name="pw">
</tr>
<tr>
<td align="right">Confirm PassWord:<font color="red"><sup>*</sup></font></td>
<td align="left"><input type="PassWord" maxlength="40" size="35" name="cp">
</tr>
<tr>
<td align="right">Gender:</td>
<form>
<td><input type="radio" name="sex" value="male" /> Male
<input type="radio" name="sex" value="female" /> Female</td>
</form>
</tr>
<tr>
<td align="right">DATE OF BIRTH:</td>
<td align="left">
<select name="dob">
<option value="x">Month</option>
<option value="j">JAN</option>
<option value="f">FEB</option>
<option value="m">MAR</option>
<option value="A">APR</option>
<option value="m">MAY</option>
```

<option value="j">JUN</option>

<option value="j">JUL</option>

<option value="j">AUG</option>

<option value="v">SEP</option>

<option value="o">OCT</option>

<option value="n">NOV</option>

<option value="d">DEC</option>

</select>

<select name="dob1">

<option value="v">DAY</option>

<option value="1">01</option>

<option value="2">02</option>

<option value="3">03</option>

<option value="4">04</option>

<option value="5">05</option>

<option value="6">06</option>

<option value="7">07</option>

<option value="8">08</option>

<option value="9">09</option>

<option value="c">10</option>

<option value="x">11</option>

<option value="a">12</option>

<option value="q">13</option>

<option value="f">14</option>

<option value="o">15</option>

<option value="s">16</option>

<option value="y">17</option>

<option value="z">18</option>

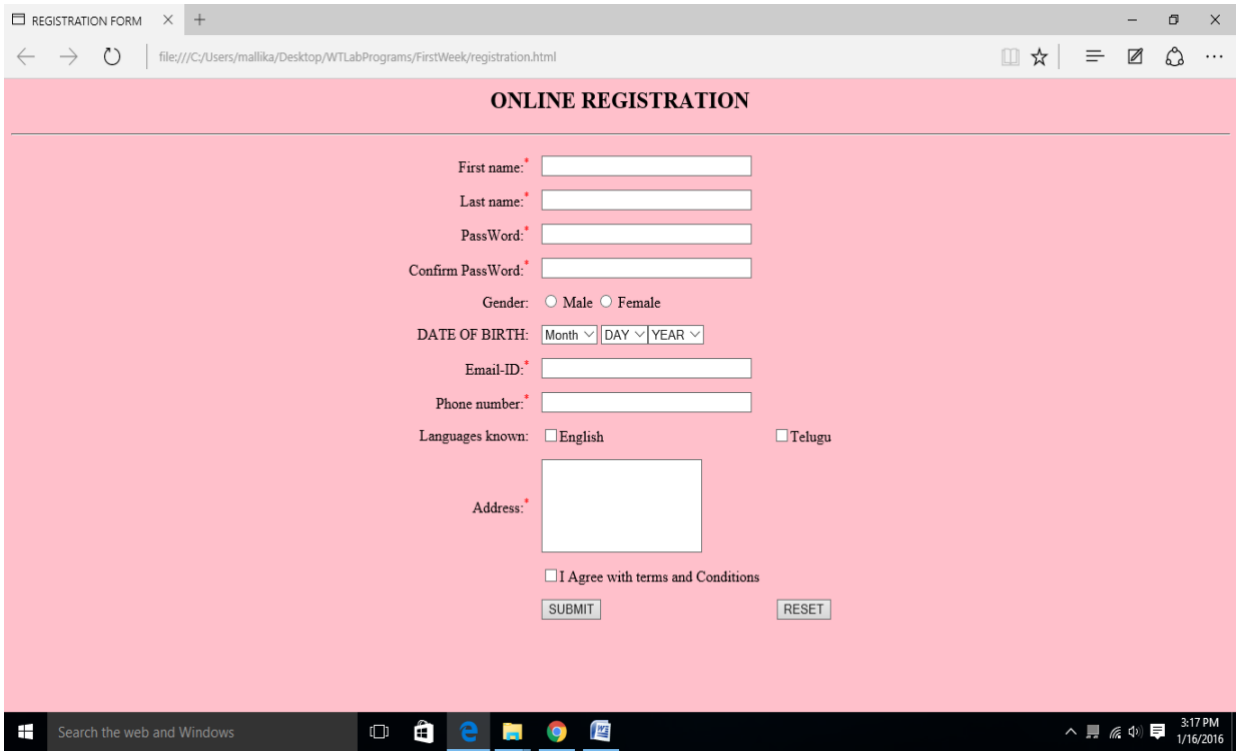
<option value="i">19</option>

<option value="j">20</option>

<option value="h">21</option>

```
<option value="e">22</option>
<option value="u">23</option>
<option value="e">24</option>
<option value="c">25</option>
<option value="b">26</option>
<option value="v">27</option>
<option value="p">28</option>
<option value="o">29</option>
<option value="k">30</option>
<option value="c">31</option>
</select><select name="dob3">
<option value="ram">YEAR</option>
<option value="2010">2010</option>
<option value="2009">2009</option>
<option value="2008">2008</option>
<option value="2007">2007</option>
<option value="2006">2006</option>
<option value="2005">2005</option>
<option value="2004">2004</option>
<option value="2003">2003</option>
</select>
<tr>
<td align="right">Email-ID:<font color="red"><sup>*</sup></font></td>
<td align="left"><input type="text" maxlength="40" size="35" name="ename">
</tr>
<tr>
<td align="right">Phone number:<font color="red"><sup>*</sup></font></td>
<td align="left"><input type="text" maxlength="40" size="35" name="phn">
</tr>
<tr>
<td align="right">Languages known:</td>
```

```
<td align="left"><input type="checkbox" name="hb" value="en">English</td>
<td align="left"><input type="checkbox" name="hb" value="te">Telugu</td>
</tr>
<tr>
<td align="right">Address:<font color="red"><sup>*</sup></font></td>
<td align="left"><textarea rows="6" cols="20" name="add">  </textarea>   </td>
</tr>
<tr>
<td></td>
<td align="left"><input type="checkbox" name="xx" value="yy">I Agree with terms and
Conditions</td>
</tr>
<tr> <td></td>
<td align="left"><input type="SUBMIT" value="SUBMIT"></td>
<td align="right"><input type="RESET" value="RESET"></td>
</tr>
</table></body>
</html>
```



Week- 3:

Apply internal and external CSS (Cascading Style Sheets)

Design a web page using CSS (Cascading Style Sheets) for Student Result Analysis.

```
<!DOCTYPE html>
<html>
<head>
<title>Registration Form</title>
<link REL="StyleSheet" TYPE="text/css" HREF="Ex.css">
<script type = "text/javascript">
```

```
function calc(){
    var m1,m2,m3,avg = 0,total = 0, result = "",grade = "";
    m1 = parseInt(document.form1.wt.value);
    m2 = parseInt(document.form1.cg.value);
    m3 = parseInt(document.form1.stm.value);
    total = m1+m2+m3;
    avg = total/3;

    if(avg >= 70 && m1>=40 && m2>=40 && m3>=40)    {
        result = "Distinction";
        grade = "A+";
    }
    else if(avg >= 60 && avg < 70 && m1>=40 && m2>=40 && m3>=40) {
        result = "First class";
        grade = "A";
    }
    else if(avg >= 50 && avg < 60 && m1>=40 && m2>=40 && m3>=40) {
        result = "Second class";
        grade = "B";
    }
    else if(avg >=40 && avg < 50)  {
        result = "Pass class";
        grade = "C";
    }
    else {
        result = "Fail";
        Grade = "D";
    }
    document.form1.result.value = result;
    document.form1.grade.value = grade;
    document.form1.total.value = total;
```

```
        document.form1.average.value = avg;
    }
</script>
</head>
<body>
<form name = "form1">
<table border = "1">
<tr>
<td align = "center">Student Name<h1></td>
<td><input type = "text"/></td>
</tr>
<tr>
<td colspan = "2" align = "center">Subject Marks</td>
</tr>
<tr>
<td>Web Technologies</td>
<td><input type = "text" name = "wt" /></td>
</tr>
<tr>
<td>Computer Graphics</td>
<td><input type = "text" name = "cg" /></td>
</tr>
<tr>
<td>Software Testing Methodologies</td>
<td><input type = "text" name = "stm" /></td>

</tr>
<tr>
<td colspan = "2" align = "center">
<input type = "button" onclick = "calc()" value ="calculte"/></td>
</tr>
```

```
<tr>
<td>Total</td>
<td><input type = "text" name = "total"/></td>
</tr>
<tr>
<td>Average</td>
<td><input type = "text" name = "average" /></td>
</tr>
<tr>
<td>Result</td>
<td><input type = "text" name = "result" /></td>
</tr>
<tr>
<td>Grade</td>
<td><input type = "text" name = "grade"/></td>
</tr>
</table>
</form>
</body>
</html>
```

Ex.css

```
body {
        background: black;
        color: black;
}
table{
      padding: 20px;
   border: 20px groove #ffffff;
 }
tr{
      font-size: x-large;
```

```
        background: cyan;
        font-decoration: bold;
}
td {
    font-size: x-large;
    font-decoration: italic; }
h1{
    background: black;
}
```

OUTPUT:

Student Name	
Subject Marks	
Web Programming	
Computer Graphics	
System Programming	
Total	

Average	
Result	
Grade	

Week -4:

VALIDATION:

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

Registration page validation using JavaScript

```
<html>
<head>
<title>REGISTRATION PAGE VALIDATION</title>
<script language="javascript">
// code for username validation

function UnameValidation(){
var fname=regform.fname.value;
var splchar = "!@#$%^&*()+=-[]\\\';,./{}|\":<>?~";
```

```
if(fname.length<6){
alert("first name must have atleast 6 characters");
}
if(fname!="" && fname.length>=6){
for (var i=0;i<fname.length;i++){
if(splchar.indexOf(fname.charAt(i)) != -1){
alert ("Userid should not have any special characters");
}
}
}
}



// code for password validation

function pwdvalidation(){
var pw=regform.pwd.value;
var cpw=regform.cpwd.value;
if(pw.length<6)
{
alert("PASSWORD MUST CONTAIN 6 CHARACTERS");
}
if(pw!=cpw)
{
alert("PASSWORD DOES NOT  MATCH");
}
else if(pw.length>=6)
alert("PASSWORD VALIDATION HAS BEEN SUCCESSFUL");
}
//code for email validation
function emailvalidation(){
```

```
var emailid=regform.email.value;
if(emailid.indexOf('@')==-1)
{
alert("invalid");
}
else if((emailid.indexOf('@')==0)||(emailid.indexOf('.')==0)||(emailid.indexOf('@'))>(emailid.indexOf('.')))
{
alert("Given email id is invalid");
}
else
alert("Given email id is valid");
}
// code for phone number validation
function phnovalidation(){
var ph=regform.phno.value;
if(ph.length==10)
{
if(isNaN(ph))
alert("It is not a valid Phone number");
else
alert("It is a valid Phone number");
}
else
alert("Please enter a valid phone number");
}
</script>

</head>
<body bgcolor="pink">
<center><h2 align="center">ONLINE REGISTRATION PAGE</h2><br>
<form name="regform" action="Login.html" method="post">
```

<h3>

First name:<input type="text" maxlength="20" size="25" name="fname" onblur="UnameValidation()">

Last name:<input type="text" maxlength="20" size="25" name="lname">

PassWord:<input type="PassWord" maxlength="20" size="25" name="pwd"></br>

Confirm PassWord:<input type="PassWord" maxlength="20" size="25" name="cpwd"
onblur="pwdvalidation()">

Gender:<input type="radio" name="gender" value="male" /> Male

<input type="radio" name="gender" value="female"/> Female

Email-ID:<input type="text" maxlength="40" size="35" name="email" onblur="emailvalidation()">

Phone number:<input type="text" maxlength="10" size="25" name="phno" onblur="phnovalidation()">

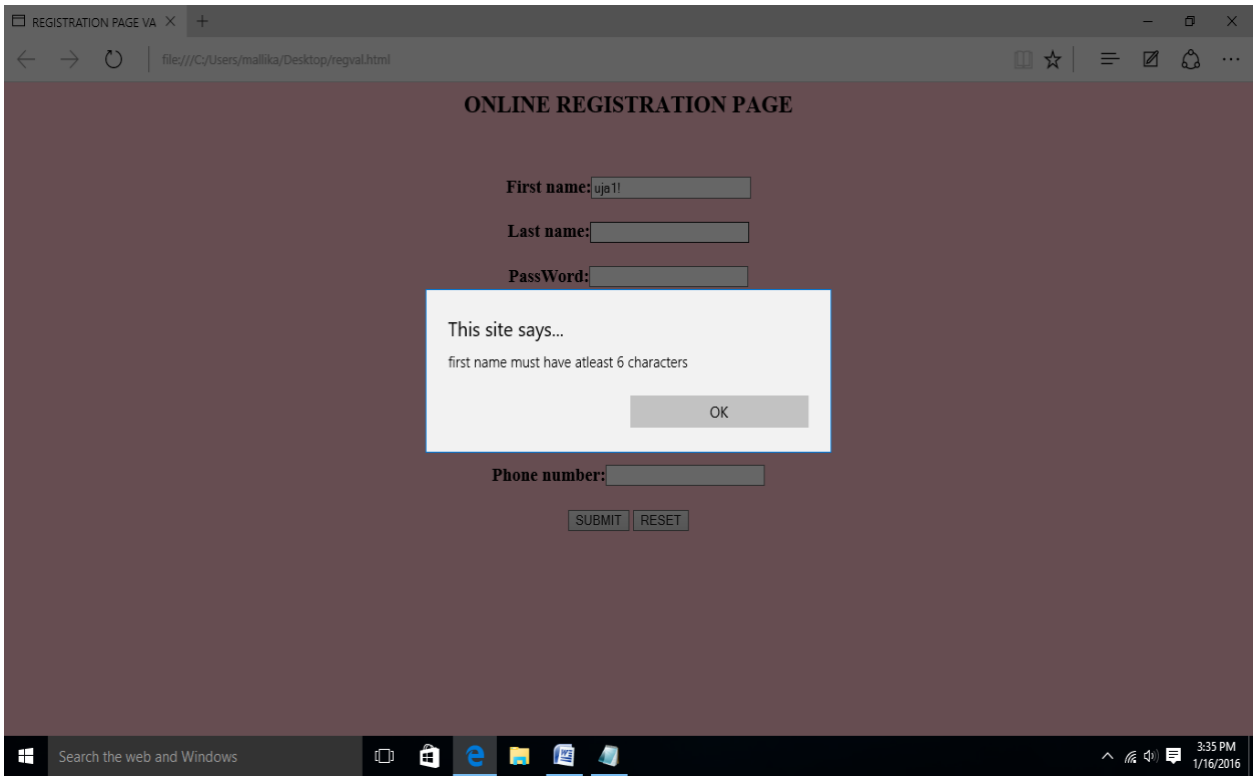
<input type="submit" value="SUBMIT">

<input type="reset" value="RESET">

</h3> </form>

</body>

</html>



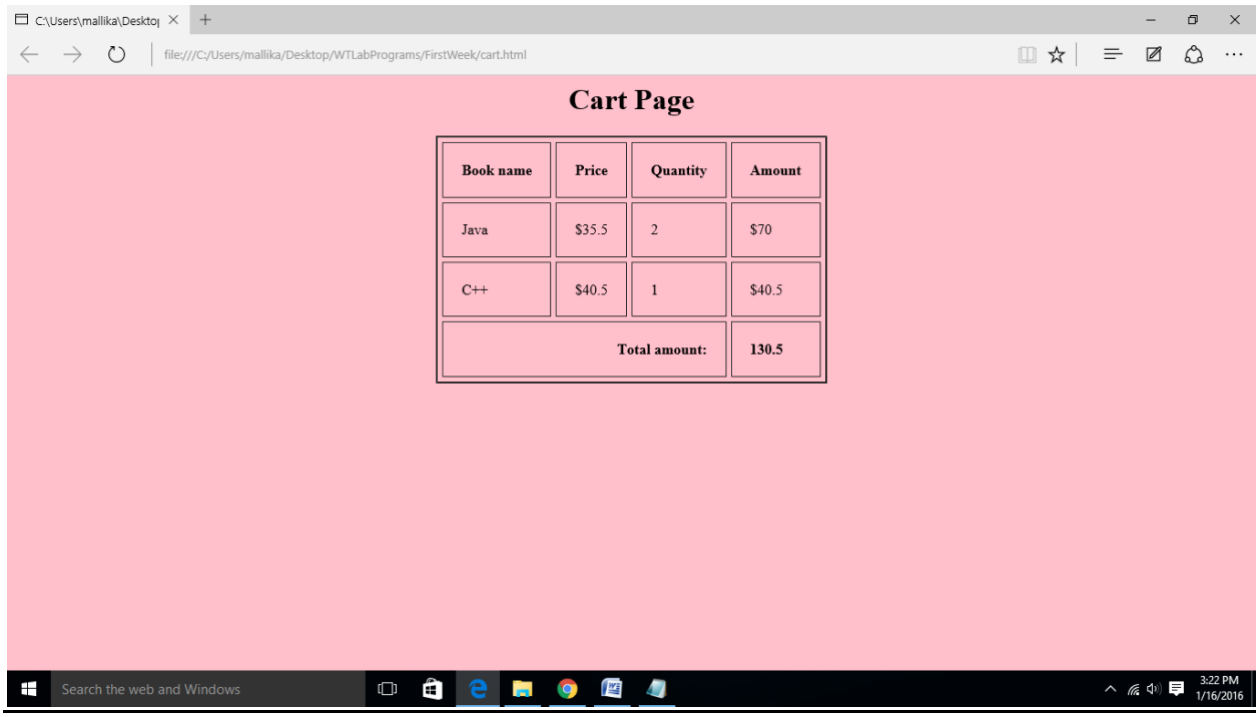
Week -5:

Design the catalogue page.

Cart.html

```
<html>
<body bgcolor="pink">
<center><h1>Cart Page</h1>
<table align="center" border="2" cellspacing="5" cellpadding="20">
<tr>
    <th>Book name</th>
    <th>Price</th>
    <th>Quantity</th>
    <th>Amount</th>
</tr>
<tr>
     <td>Java</td>
     <td>$35.5</td>
     <td>2</td>
```

```
    <td>$70</td>
</tr>
<tr>
    <td>C++</td>
    <td>$40.5</td>
    <td>1</td>
    <td>$40.5</td>
</tr>
<tr>
    <td colspan=3 align="right"><b>Total amount:</b></td>
    <td ><b>130.5</b> </td>
</tr>
</body>
</html>
```



Week -6:

Write an XML file which will display the Book information which includes the following: Write a Document Type Definition (DTD) to validate the above XML file.

Lib.dtd

```
<? xml version="1.0" encoding="UTF-8"?>
<! ELEMENT library (book+)>
<!ELEMENT book (bid,title,author*,pub,cover,pages,rating,value,location,comment?)>
<!ELEMENT bid EMPTY>
<!ATTLIST bid bno CDATA #REQUIRED>
<!ELEMENT title (#PCDATA)>
<!ELEMENT author (#PCDATA)>
<!ATTLIST author nickname CDATA #IMPLIED>
<!ELEMENT pub (#PCDATA)>
<!ELEMENT cover EMPTY>
<!ATTLIST cover make (hardbound | paperbound) #REQUIRED>
<!ELEMENT pages (#PCDATA)>
<!ELEMENT rating EMPTY>
<!ATTLIST rating quality (poor | avg | good | excellent)  #REQUIRED >
<!ELEMENT value EMPTY>
<!ATTLIST value mkt CDATA #REQUIRED price CDATA #REQUIRED>
<!ELEMENT location EMPTY>
<!ATTLIST location place CDATA #FIXED "CVSR">
<!ELEMENT comment (#PCDATA)>
```

Library.xml

```
<?xml version="1.0"?>
<!DOCTYPE library SYSTEM "C:\Users\akshay\Desktop\xyz\xml\libary1.dtd">
<library>	<book>
		<bid bno="100"/>
		<title>Java Programming</title>
		<author>abc</author>
		<author nickname="who">xyz</author>
		<pub>BPB pub</pub>
		<cover make="hardbound"/>
		<pages>300</pages>
		<rating quality='good'/>
		<value mkt="whole sale" price="250.00"/>
		<location place="CVSR"/>
		<comment>this is a good book</comment>
	</book>
	<book>
		<bid bno="101"/>
		<title>C Programming</title>
		<author>balaguruswami</author>
		<pub>BPB pub</pub>
		<cover make="hardbound"/>
		<pages>250</pages>
		<rating quality="excellent"/>
		<value mkt="market" price="300.00"/>
		<location place="CVSR"/>
	</book>
</library>
```

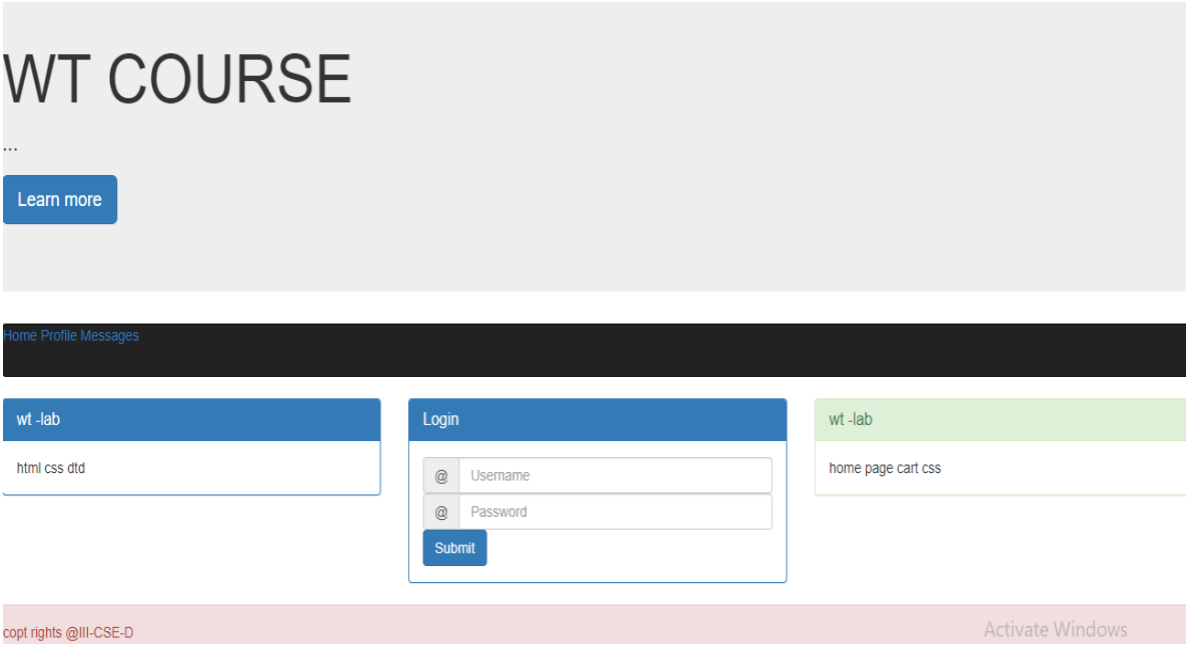
Week -7:

Develop week(1-5) using bootstrap

```
<!doctype html>
<html lang="en">
<head>
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
<title>Bootstrap 101 Template</title>
<!-- Bootstrap -->
<link rel="stylesheet" href="css/bootstrap.min.css" >
</head>
<body>
<div class="row">
<div class="col-md-12">
<div class="jumbotron">
<h1>WT COURSE</h1>
<p>...</p>
<p><a class="btn btn-primary btn-lg" href="#" role="button">Learn more</a></p>
</div>
</div>
</div>
<div class="row">
<div class="col-md-12">
<nav class="navbar navbar-inverse">
```

```
<a href="#">Home</a>
<a href="#">Profile</a>
<a href="#">Messages</a>
</nav>
</div>
</div>
<div class="row">
<div class="col-md-4">
<div class="panel panel-primary">
<div class="panel-heading">
<h3 class="panel-title">wt -lab</h3>
</div>
<div class="panel-body">
html
css
dtd
</div>
</div>
</div>
<div class="col-md-4">
<div class="panel panel-primary">
<div class="panel-heading">
<h3 class="panel-title">Login</h3>
</div>
<div class="panel-body">
<div class="input-group">
<span class="input-group-addon" id="basic-addon1">@</span>
<input type="text" class="form-control" placeholder="Username" aria-describedby="basic-addon1">
</div>
<div class="input-group">
<span class="input-group-addon" id="basic-addon1">@</span>
<input type="text" class="form-control" placeholder="Password" aria-describedby="basic-addon1">
</div>
<input class="btn btn-primary" type="submit" value="Submit">
</div>
</div>
</div>
<div class="col-md-4">
```

```
<div class="panel panel-success">
<div class="panel-heading">
<h3 class="panel-title">wt -lab</h3>
</div>
<div class="panel-body">
home page
cart
css
</div>
</div>
</div>

</div>
<div class="row">
<div class="alert alert-danger" role="alert">
copt rights @III-CSE-D
</div>
</div>

<!-- jQuery (necessary for Bootstrap's JavaScript plugins) -->
<script src="https://code.jquery.com/jquery-1.12.4.min.js" integrity="sha384-
nvAa0+6Qg9clwYCGGPpDQLVpLNn0fRaROjHqs13t4Ggj3Ez50XnGQqc/r8MhnRDZ"
crossorigin="anonymous"></script>
<!-- Include all compiled plugins (below), or include individual files as needed -->
<script src=js/bootstrap.min.js" ></script>
</body>
</html>
```



Week -8:

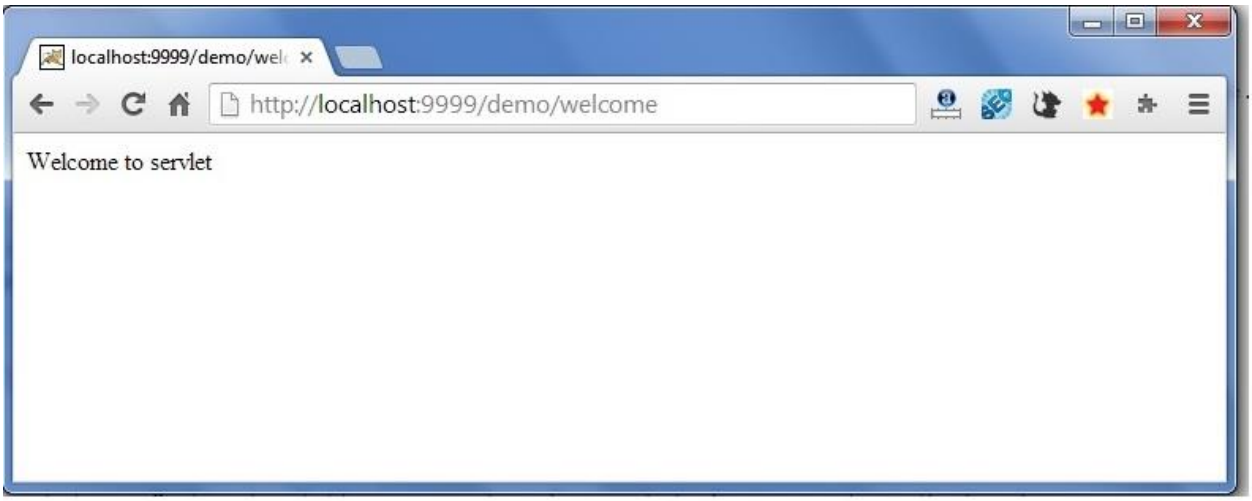
Write a program to display the HELLO WORLD message using servlet.

DemoServlet.java

```
import javax.servlet.http.*;
import javax.servlet.*;
import java.io.*;
public class DemoServlet extends HttpServlet{
public void doGet(HttpServletRequest req,HttpServletResponse res)
throws ServletException,IOException
{
res.setContentType("text/html");//setting the content type
PrintWriter pw=res.getWriter();//get the stream to write the data

//writing html in the stream
pw.println("<html><body>");
pw.println("Welcome to servlet");
pw.println("</body></html>");

pw.close();//closing the stream
}}
```

Web.xml

```
<web-app>
 <servlet>
<servlet-name>sonoojaiswal</servlet-name>
<servlet-class>DemoServlet</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>sonoojaiswal</servlet-name>
<url-pattern>/welcome</url-pattern>
</servlet-mapping>
</web-app>
```



Week -9:

Write a program to create cookies and retrieval using servlet.

index.html

```
<form action="servlet1" method="post">
Name:<input type="text" name="userName"/><br/>
<input type="submit" value="go"/>
</form>
```

FirstServlet.java

```
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;


public class FirstServlet extends HttpServlet {

  public void doPost(HttpServletRequest request, HttpServletResponse response){
    try{

    response.setContentType("text/html");
    PrintWriter out = response.getWriter();

    String n=request.getParameter("userName");
    out.print("Welcome "+n);

    Cookie ck=new Cookie("uname",n);//creating cookie object
    response.addCookie(ck);//adding cookie in the response

    //creating submit button
    out.print("<form action='servlet2'>");
    out.print("<input type='submit' value='go'>");
    out.print("</form>");
```

```
    out.close();

        }catch(Exception e){System.out.println(e);}
  }
}
```

SecondServlet.java

```
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;

public class SecondServlet extends HttpServlet {

public void doPost(HttpServletRequest request, HttpServletResponse response){
    try{

    response.setContentType("text/html");
    PrintWriter out = response.getWriter();

    Cookie ck[]=request.getCookies();
    out.print("Hello "+ck[0].getValue());

    out.close();

        }catch(Exception e){System.out.println(e);}
    }

  }
```

web.xml

```
<web-app>
 <servlet>
<servlet-name>s1</servlet-name>
```

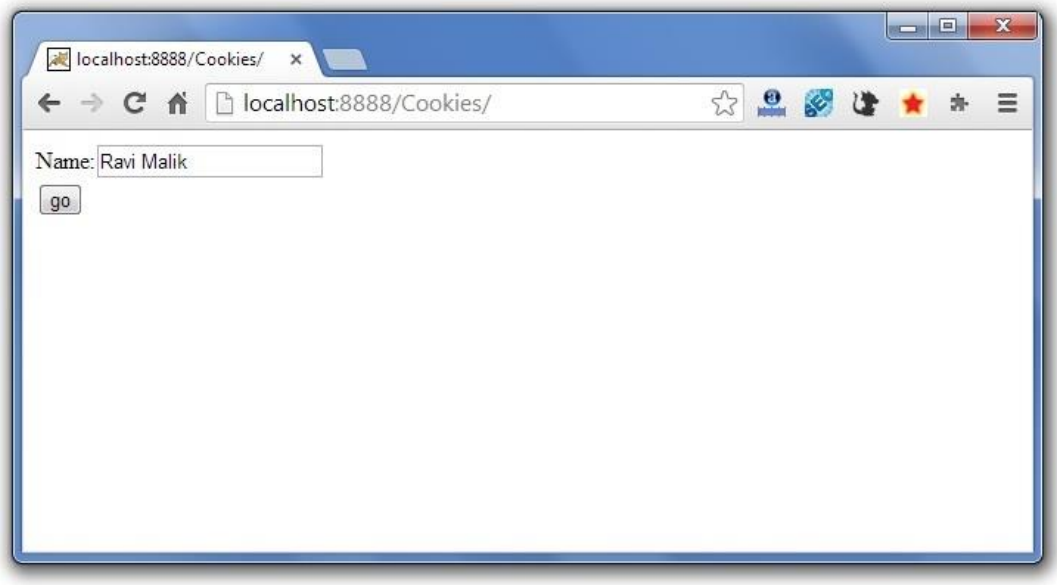
<servlet-**class**>FirstServlet</servlet-**class**>
</servlet>

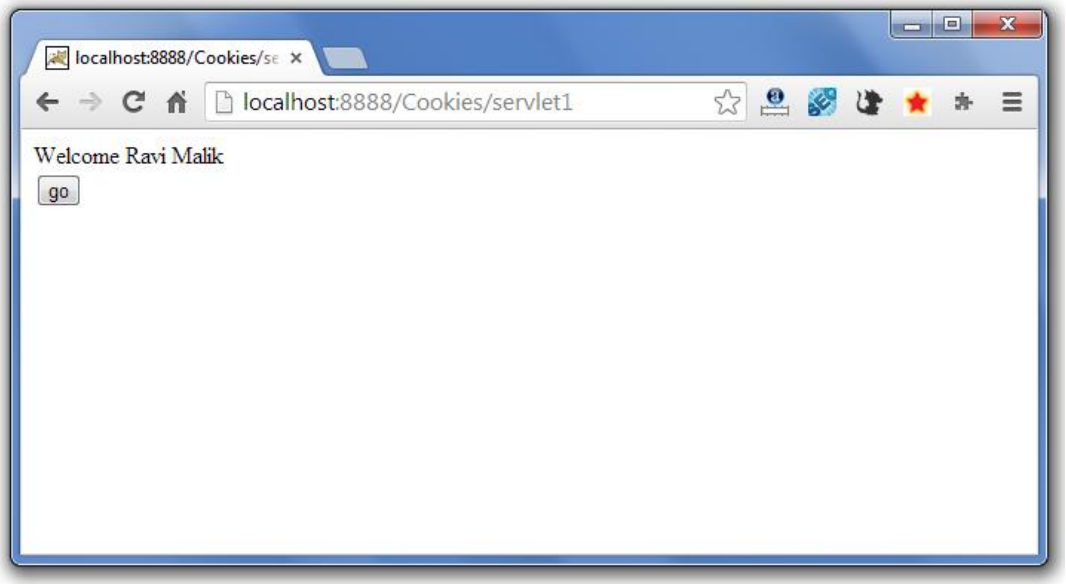
<servlet-mapping>
<servlet-name>s1</servlet-name>
<url-pattern>/servlet1</url-pattern>
</servlet-mapping>

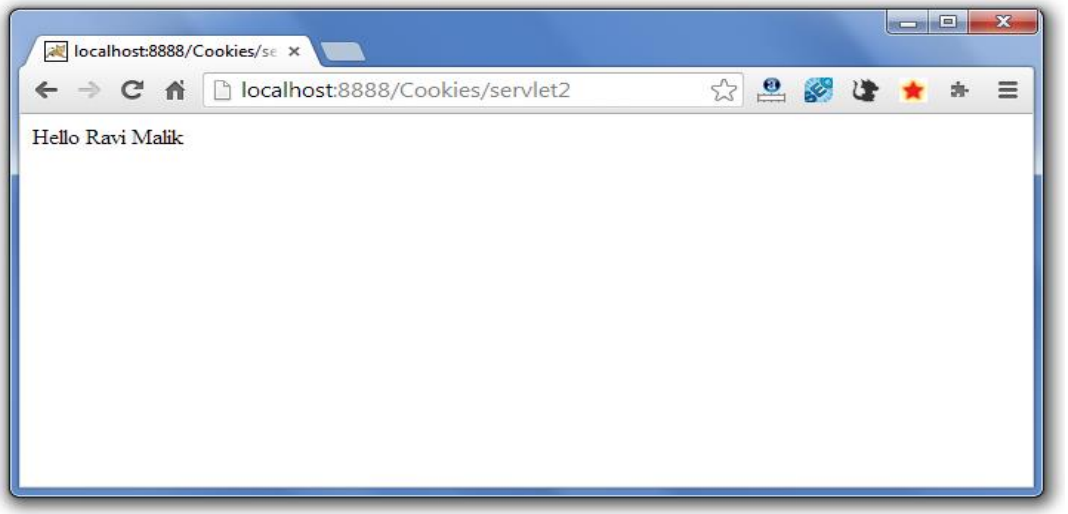
<servlet>
<servlet-name>s2</servlet-name>
<servlet-**class**>SecondServlet</servlet-**class**>
</servlet>

<servlet-mapping>
<servlet-name>s2</servlet-name>
<url-pattern>/servlet2</url-pattern>
</servlet-mapping>

</web-app>





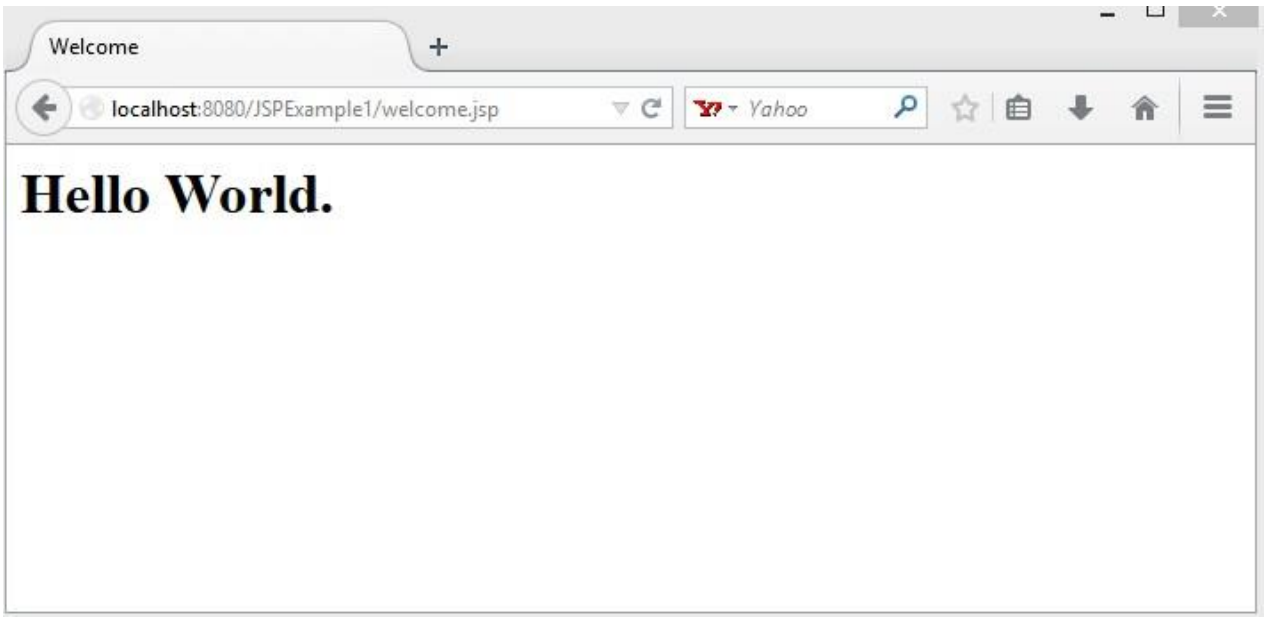


Week -10:

Write a program to display the HELLO WORLD message using JSP

```
<html>

<head>

<title>welcome</title>

</head>

<body>

<%= "Hello World." %>

</body>
```

</html>



Week -12:

Using registration form. Authenticate the user when he submits the login form using the user name and password from the database

Index.html

<!DOCTYPE html>

<html>

<head>

<meta charset="ISO-8859-1">

<title>login Page</title>

```
</head>
<body>
<form action="login.jsp" method="post">
User name :<input type="text" name="user" required /><br>
password :<input type="password" name="password" required /><br>
<input type="submit" /> </form>
<p>New user. <a href="register.html">Login Here</a>. </body>
</html>
```

Register.html

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>new registration</title>
</head>
<body>
<form action="reg-process.jsp" method="post">
First name :<input type="text" name="fname" /><br>
Last name :<input type="text" name="lname" /><br>
```

```
Email ID :<input type="text" name="email" /><br>
User name :<input type="text" name="userid" /><br>
password :<input type="password" name="password" /><br>
<input type="submit" />
</form>
</body>
</html>
```

Login.jsp

```
<%@page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>
<%@page import="java.sql.*" %>
<html>
<body>
<%

String userid=request.getParameter("user");
String password=request.getParameter("password");
Class.forName("oracle.jdbc.driver.OracleDriver");
```

```
Connection
con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe","system","manager");

Statement st=con.createStatement();

ResultSet rs=st.executeQuery("select * from users1");

int flag=0;


while(rs.next())

{


if(rs.getString(4).equals(userid) && rs.getString(5).equals(password))

{

flag=1;

break;

}

}

if (flag==0)

out.print(" Username or Password not correct");

else

{

out.print("Login Successful"+"<br>");

session.setAttribute("uname",userid);

session.setMaxInactiveInterval(30);

out.print("<a href='logout.jsp'>logout</a>");


}
```

```
%>


</body>
</html>
```

Logout.jsp

```
<%
String s=(String)session.getAttribute("uname");
session.removeAttribute("uname");
session.invalidate();
response.sendRedirect("index.html");
%>
```

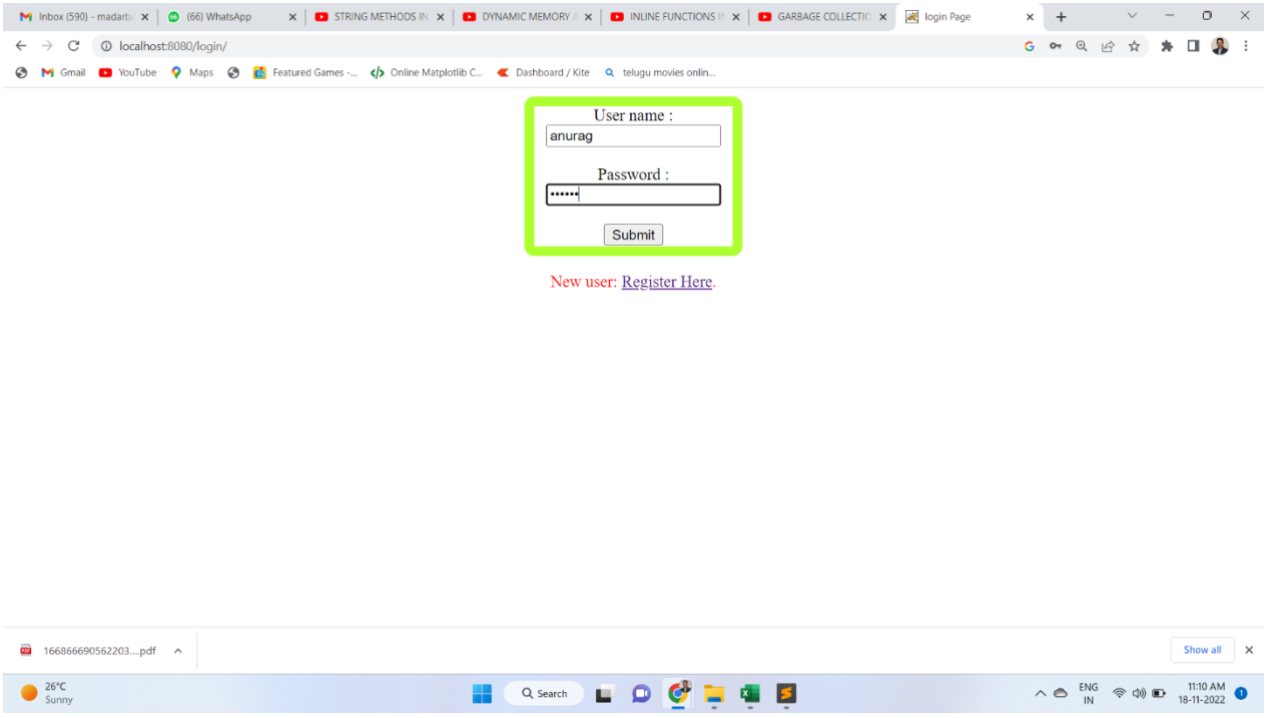
Reg-process.jsp

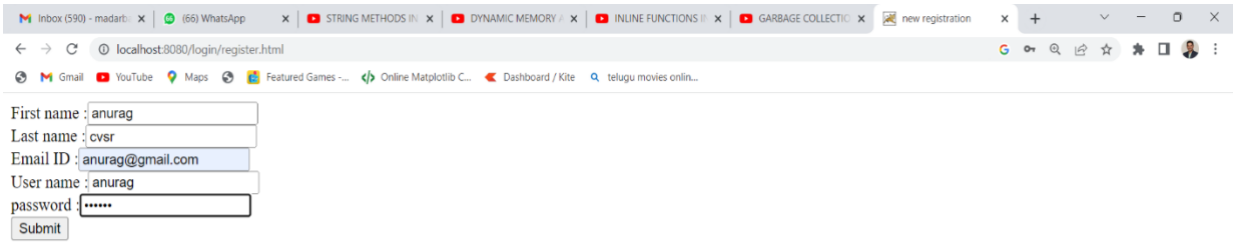
```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>
<%@page import="java.sql.*,java.util.*"%>
<%
String fname=request.getParameter("fname");
String lname=request.getParameter("lname");
```

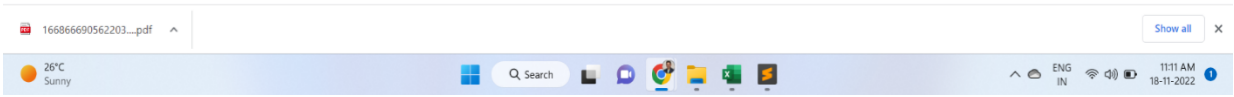
```
String email=request.getParameter("email");
String userid=request.getParameter("userid");
String password=request.getParameter("password");

Class.forName("oracle.jdbc.driver.OracleDriver");
Connection
con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe","system","manager");
Statement st=con.createStatement();
int i=st.executeUpdate("insert into
users1(fname,lname,email,userid,password)values("'+fname+'","'+lname+'","'+email+'","'+userid+"'
,"'+password+"')");
if(i>0)
{
out.println("Thank you for register ! Please <a href='index.html'>Login</a> to continue.");
}
else
{
    out.print("Registration is faild");
}

%>
```

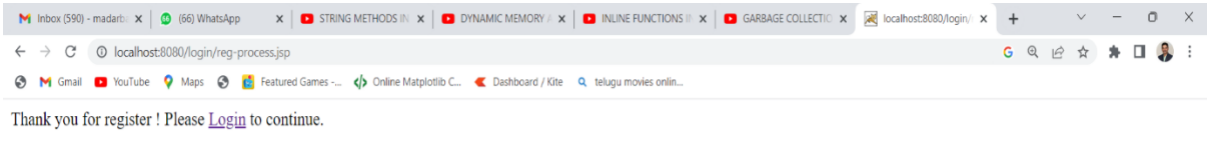
Welcome.jsp

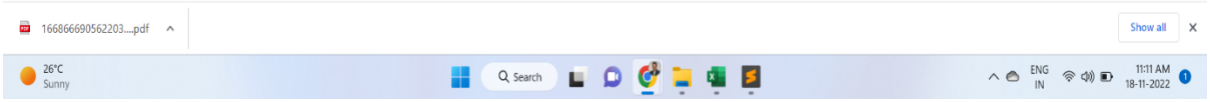
```
<%
out.print("Login Successful");
String s=(String)session.getAttribute("uname");
session.setMaxInactiveInterval(30);

%>
<a href="logout.jsp">logout</a>
```

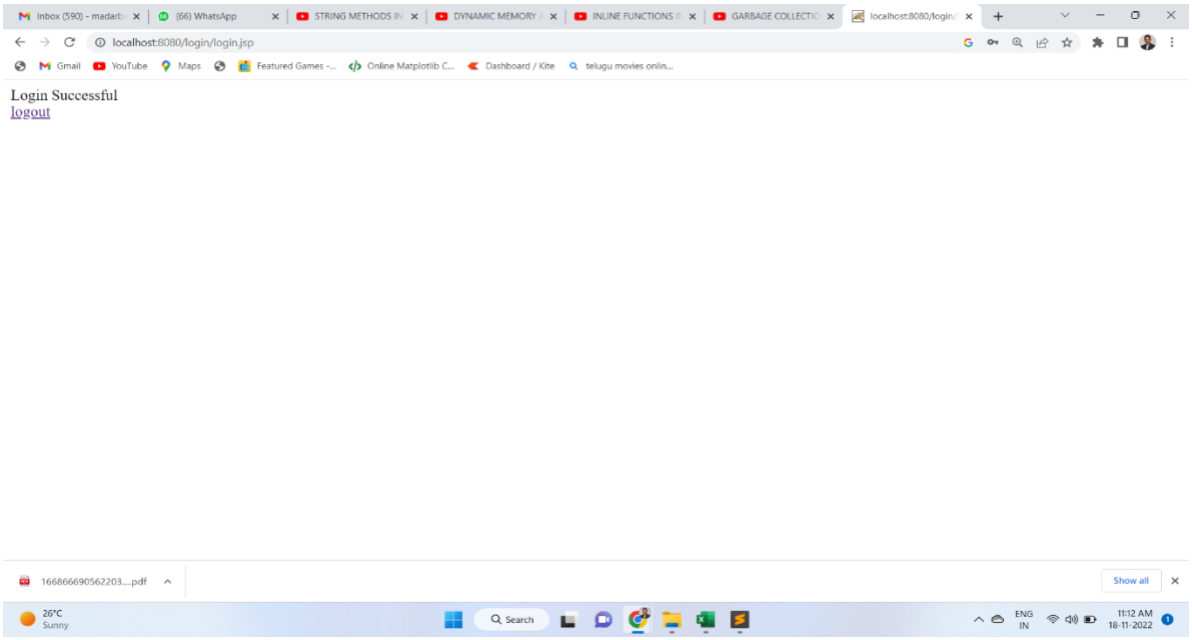

Inbox (590) - madarb
(66) WhatsApp
STRING METHODS IN
DYNAMIC MEMORY
INLINE FUNCTIONS
GARBAGE COLLECTIO
login Page
localhost:8080/login/
Gmail
YouTube
Maps
Featured Games -...
Online Matplotlib C...
Dashboard / Kite
telugu movies onlin...
User name :
anurag
Password :
Submit
New user: Register Here.
166866690562203....pdf
Show all
26°C
Sunny
Search
ENG
IN
11:10 AM
18-11-2022


new registration
localhost:8080/login/register.html
First name : anurag
Last name : cvsr
Email ID : anurag@gmail.com
User name : anurag
password : ••••••
Submit


166866690562203....pdf
Show all
26°C
Sunny
Search
ENG
IN
11:11 AM
18-11-2022


localhost:8080/login/reg-process.jsp
Thank you for register ! Please Login to continue.


166866690562203....pdf
Show all
26°C
Sunny
Search
ENG
IN
11:11 AM
18-11-2022



Week -13

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 pagein such a way that you should connect to the database and extract data from the tables and display them in the catalogue page using JDBC.

PROGRAM:

Retrieve.java:

```
import javax.servlet.*; import
javax.servlet.http.*;import
java.sql.*;

import java.io.*;
import java.util.*;

public class Retrieve extends HttpServlet
{
public void service(HttpServletRequest req,HttpServletResponse res) throws
ServletException,IOException
```

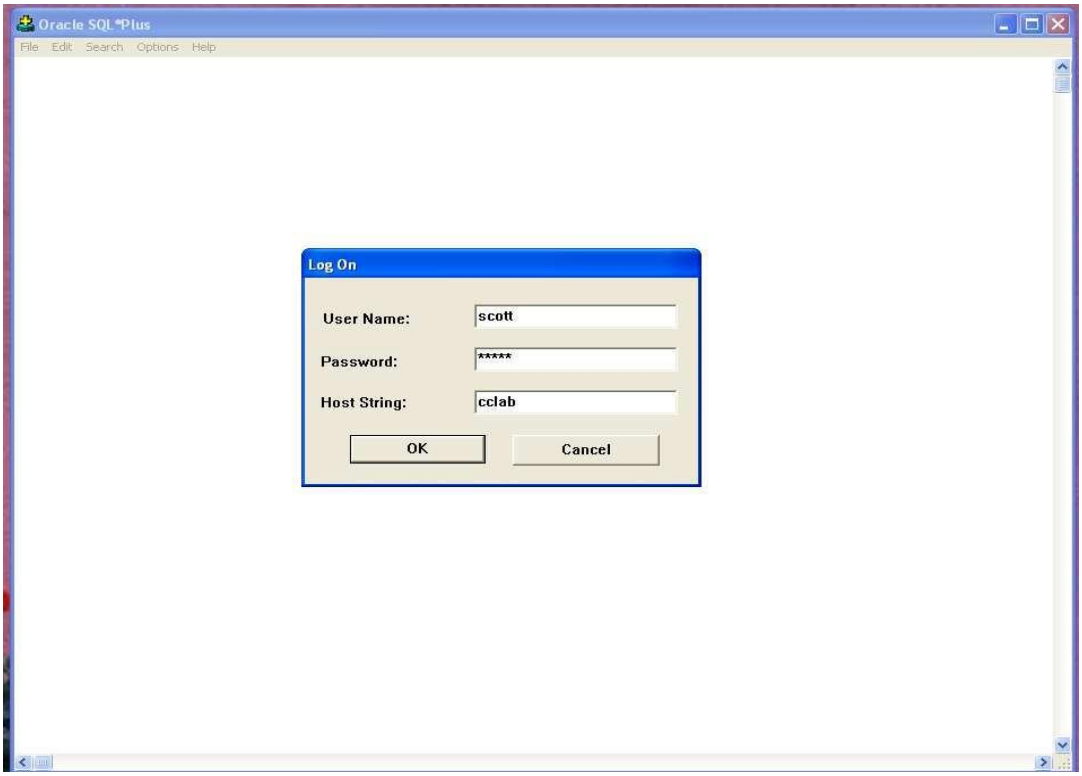
```
{
res.setContentType("text/html");
PrintWriter out=res.getWriter(); try{
Class.forName("oracle.jdbc.driver.OracleDriver");
Connection
con=DriverManager.getConnection("jdbc:oracle:thin:@195.100.101.158:1521:cclab","scott","tiger");
Statement s=con.createStatement();
ResultSet r=s.executeQuery("select * from cart");
```

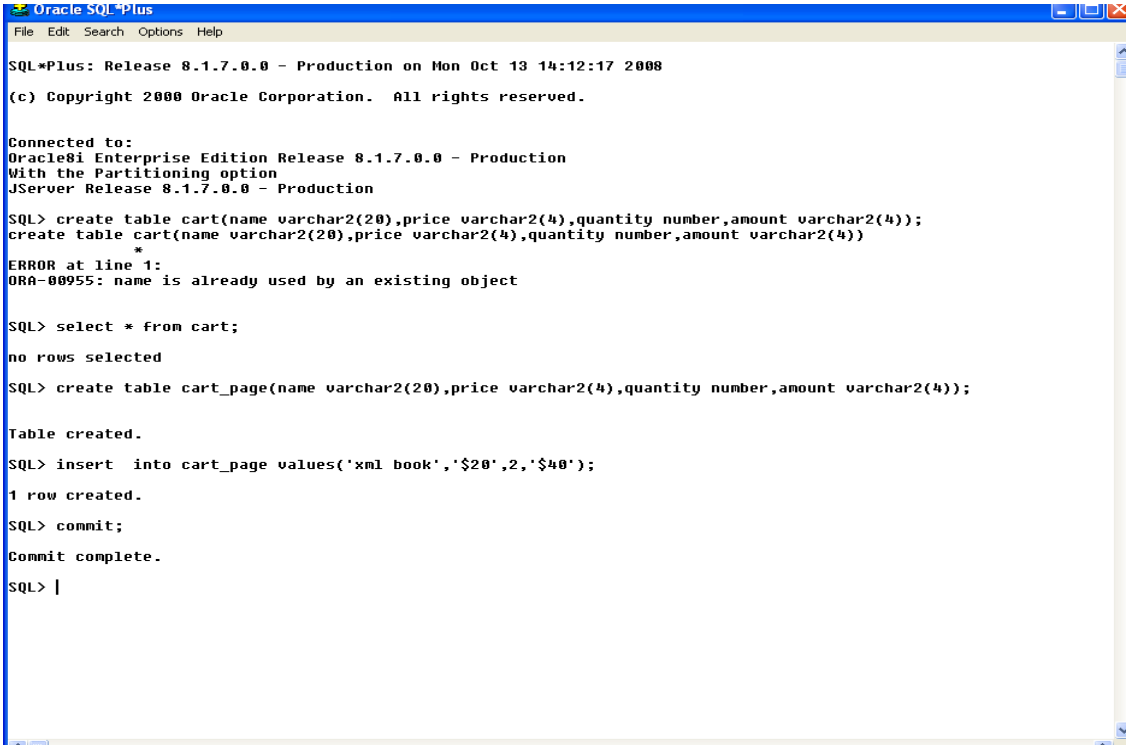
```
out.println("<center> <table border=1>");
out.println("<thead> <th> Book name </th> <th> Price </th> <th> Quantity </th> <th> Amount </th>
</thead>");
while(r.next())
{
out.println("<tr> <td> "+r.getString(1)+"</td> ");
out.println("<td> "+r.getString(2)+"</td> ");
out.println("<td> "+r.getInt(3)+"</td> ");
out.println("<td>  "+r.getString(4)+"</td> </tr>");
}
out.println("</table></center>");
con.close();
}
catch(SQLException sq)
{
out.println("sql exception"+sq);
}

catch(ClassNotFoundException cl)
{
out.println("class not found"+cl);
}
}
}
```

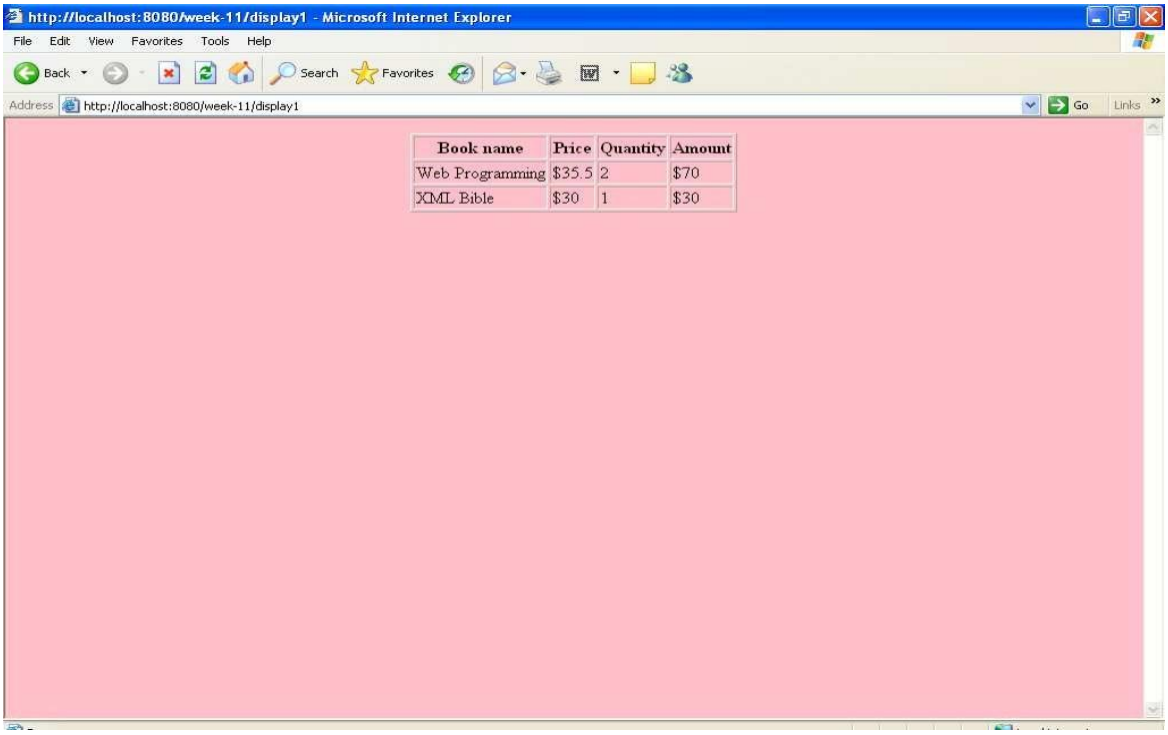
web.xml:

```
<web-app>

<servlet>

<servlet-name>set</servlet-name>

<servlet-class>Cartenter</servlet-class>

</servlet>
```

```
<servlet>
<servlet-name>display</servlet-name>
<servlet-class>Retrieve</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>set</servlet-name>
<url-pattern>/enterdata</url-pattern>
</servlet-mapping>
<servlet-mapping>
<servlet-name>display</servlet-name>
<url-pattern>/display1</url-pattern>
</servlet-mapping>
</web-app>
```


Oracle SQL*Plus
File Edit Search Options Help
Log On
User Name:
scott
Password:
*****
Host String:
cclab
OK
Cancel


Oracle SQL*Plus
File Edit Search Options Help
SQL*Plus: Release 8.1.7.0.0 - Production on Mon Oct 13 14:12:17 2008
(c) Copyright 2000 Oracle Corporation. All rights reserved.
Connected to:
Oracle8i Enterprise Edition Release 8.1.7.0.0 - Production
With the Partitioning option
JServer Release 8.1.7.0.0 - Production
SQL> create table cart(name varchar2(20),price varchar2(4),quantity number,amount varchar2(4));
create table cart(name varchar2(20),price varchar2(4),quantity number,amount varchar2(4))
*
ERROR at line 1:
ORA-00955: name is already used by an existing object
SQL> select * from cart;
no rows selected
SQL> create table cart_page(name varchar2(20),price varchar2(4),quantity number,amount varchar2(4));
Table created.
SQL> insert into cart_page values('xml book','$20',2,'$40');
1 row created.
SQL> commit;
Commit complete.
SQL>


http://localhost:8080/week-11/display1 - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://localhost:8080/week-11/display1
Go Links
Book name Price Quantity Amount
Web Programming $35.5 2 $70
XML Bible $30 1 $30

Week -14

Implement week -10 in MVC architecture.

View.html

```
<html>
<form method="post" action="control.jsp">
<table>
<tr><td>User Name:</td><td><input type="text" name="usr"></td></tr>
<tr><td>Password :</td><td><input type="text" name="psw"></td></tr>
<tr><td></td><td><input type="submit" value="Submit"></td></tr>
</table>
</form>
</html>
```

Control.jsp

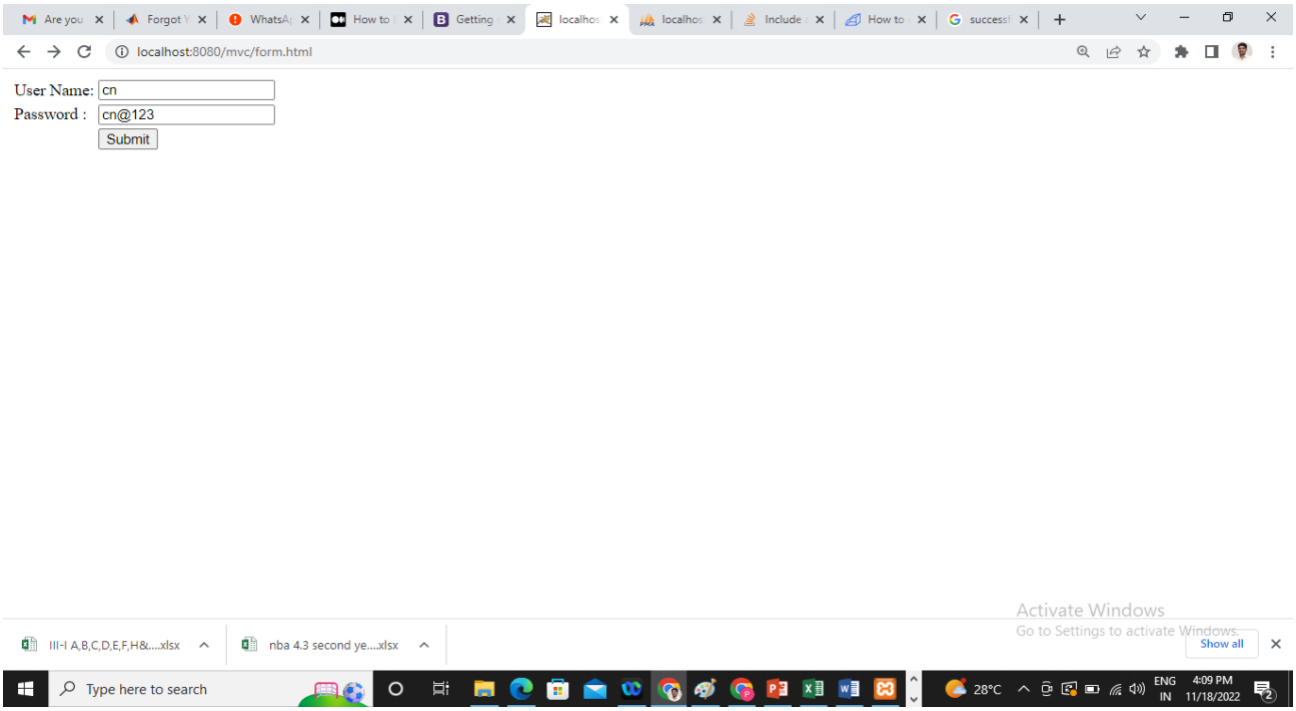
```
<%@ page import="java.sql.*" %>
<%@ page import="java.io.*" %>
<%! Connection con=null; %>
<%! Statement st= null; %>
<%! ResultSet rs= null; %>
<%! String str; %>
<%@include file="model.jsp" %>
<html>
```

```
<head><title>This is a Jdbc Example</title></head>
<body>
<%
String uname=request.getParameter("usr");
String upsw=request.getParameter("psw");
String psw="";
try {
Class.forName("com.mysql.jdbc.Driver").newInstance();
}catch(ClassNotFoundException ce){out.println(ce);}
try{
con = DriverManager.getConnection("jdbc:mysql://localhost/wt","root", "");
st = con.createStatement();
rs = getpass(uname,con,st);
while(rs.next()) {
 psw= rs.getString(3);
}
if(psw.equals(upsw))
{
        out.println("<h1>login success</h1>");
}else{
        out.println("<h1>login Fail</h1>");
} // end of while
rs.close();
st.close();
con.close();
```

```
}catch(SQLException exception){
out.println("<!--");
StringWriter sw = new StringWriter();
PrintWriter pw = new PrintWriter(sw);
exception.printStackTrace(pw);
out.print(sw);
sw.close();
pw.close();
out.println("-->");
}%>
</body>
</html>
```

Model.jsp

```
<%!
ResultSet getpass(String usr,Connection con,Statement st )throws SQLException
{
rs = st.executeQuery("SELECT * from login where usr='"+usr+"'");
return rs;
}
%>
```


localhost:8080/mvc/form.html
User Name: cn
Password : cn@123
Submit
Activate Windows
Go to Settings to activate Windows.
Show all
Type here to search
28°C
ENG
IN
4:09 PM
11/18/2022