

2. Write an HTML page including any required JavaScript that takes a number from one text field in the range of 0 to 999 and shows it in another text field in words. If the number is out of range, it should show "out of range" and if it is not a number, it should show "not a number" message in the result box.

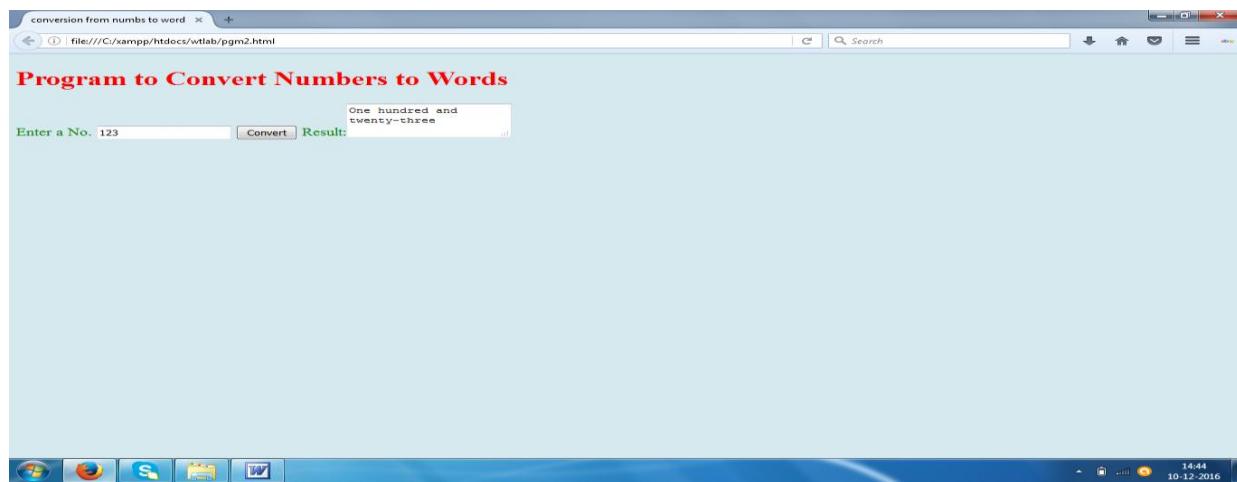
```
<html>
<head>
<title>conversion from numbs to word</title>
<script>
function checkfun()
{
var num = document.f1.num1.value;
var nan= "NOT a Number";
var oor= "Out of Range";
var a= new RegExp("[0-9]");
if(!a.test(num)){
f1.res.value= nan;
alert("Enter Numbers Only !!");
}
if(num.length>3)
{
f1.res.value= oor;
alert("Out of Range");
var SingleDigits = new Array("Zero", "One", "Two", "Three", "Four", "Five", "Six", "Seven", "Eight", "Nine",
"Ten", "Eleven", "Twelve", "Thirteen", "Fourteen", "Fifteen", "Sixteen", "Seventeen", "Eighteen", "Nineteen");
var DoubleDigits = new Array("Twenty", "Thirty", "Forty", "Fifty", "Sixty", "Seventy", "Eighty", "Ninety");
var Words = "";
var St;
for (var i = 9; i >= 1; i--)
{
if (num >= i * 100)
{
Words += SingleDigits[i];
St = 1;
Words += " hundred";
if (num != i * 100) Words += " and ";
{
    num -= i*100;
}
i=0;
}
}
for (var i = 9; i >= 2; i--)
{
if (num >= i * 10)
{
Words += (St?DoubleDigits[i-2].toLowerCase():DoubleDigits[i-2]);
St = 1;
if (num != i * 10)
{
}
}
}
}
</script>
```

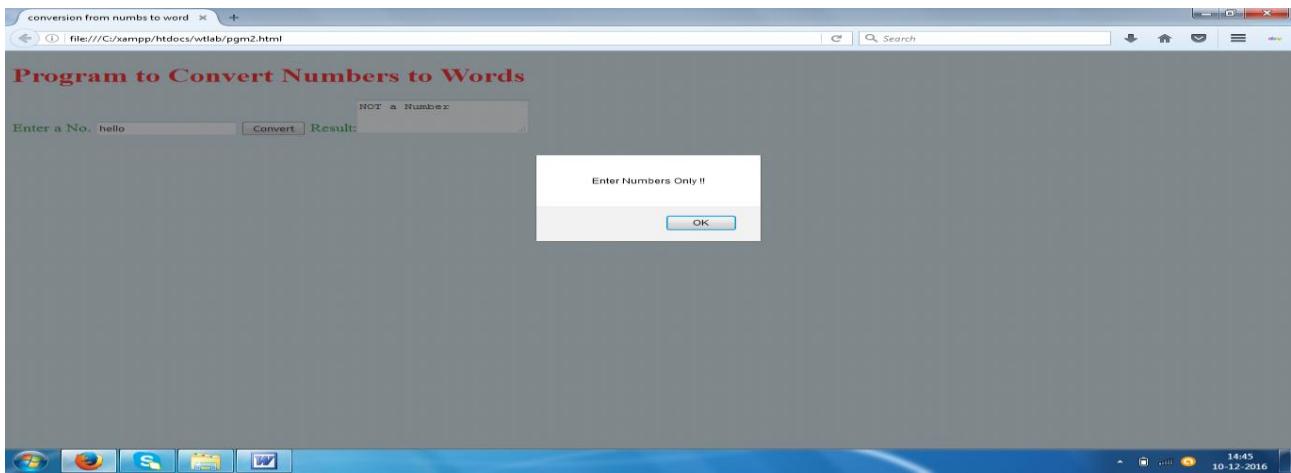
```

Words += "-";
{
num -= i*10;
}
i=0;
}
}
for (var i = 1; i < 20; i++)
{
if (num == i)
{
Words += (St?SingleDigits[i].toLowerCase():SingleDigits[i]);
}
}
f1.res.value = Words;
}
</script>
</head>
<body bgcolor=#D6E9EF>
<font color=Red>
<h1> Program to Convert Numbers to Words</h1>
<form name="f1">
<font color=green size=4>
Enter a No. <input type=text name=num1>
<input type="button" value=Convert onclick="checkfun()">
Result:<textarea name=res></textarea>
</font></form>
</body>
</html>

```

Output Screens:



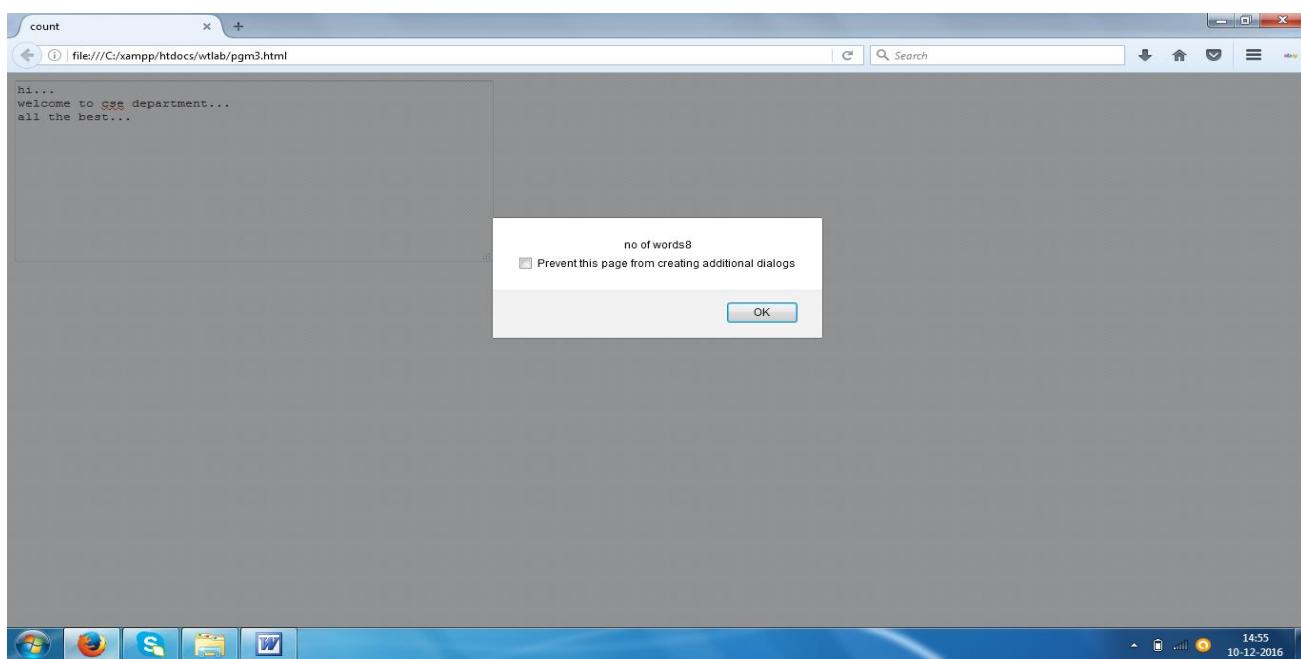
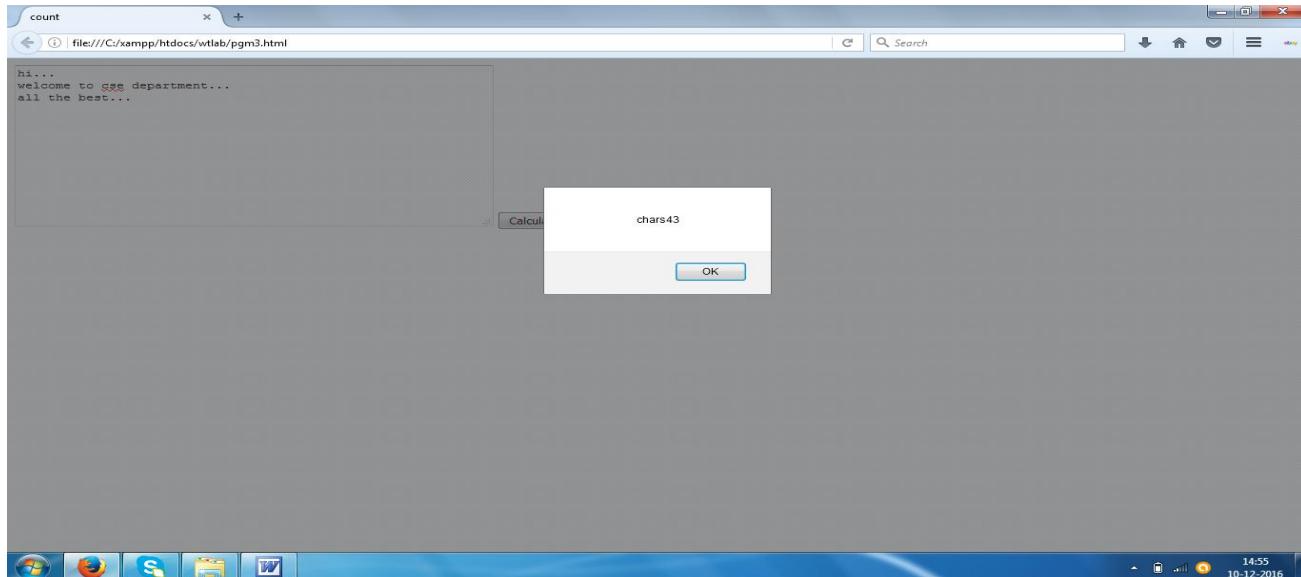


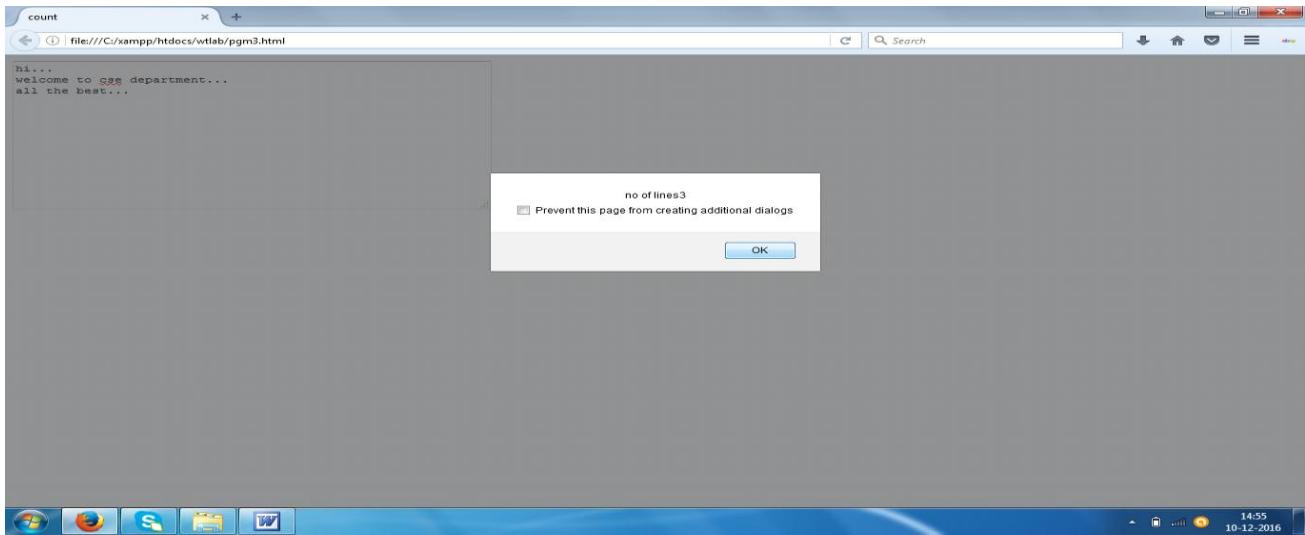
3. Write an HTML page that has one input, which can take multi-line text and a submit button. Once the user clicks the submit button, it should show the number of characters, words and lines in the text entered using an alert message. Words are separated with white space and lines are separated with new line character.

```
<html>
<head>
<title>count</title>
<script language="JavaScript">
function countit(){
var count=1,count1=1,c=0;
var a=document.form1.ta.value;
var b=a.length;
for(var i=0;i<b;i++)
{
if((a.charAt(i)==' ')||(a.charAt(i)=='\n'))
{ count++; }
else
{ c++; }
if(a.charAt(i)=='\n')
{ count1++; }
}
alert("chars"+c);
alert("no of words"+count);
alert("no of lines"+count1);
}
</script>
</head>
<body>
    <form name=form1 method="POST">
<textarea rows="12" name="ta" cols="60" wrap="virtual">
</textarea>
```

```
<input type="button" value="Calculate" onClick="countit()">
</form>
</body>
</html>
```

Output Screens:



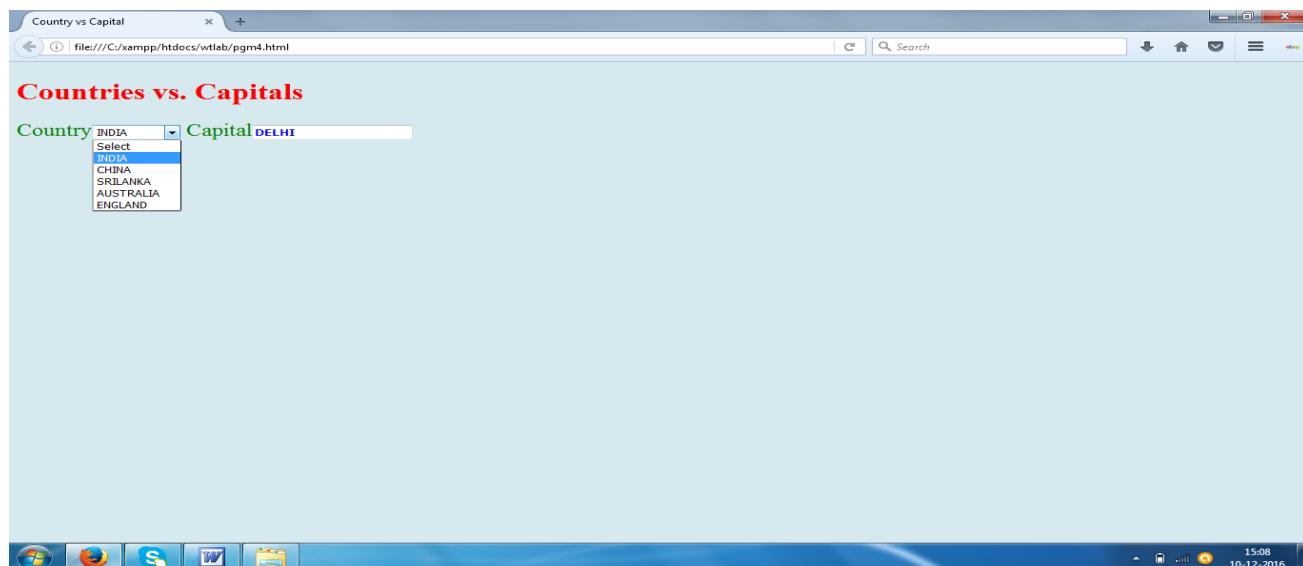


4. Write an HTML page that contains a selection box with a list of 5 countries. When the user selects a country, its capital should be printed next to the list. Add CSS to customize the properties of the font of the capital (color, bold and font size).

```
<html>
<head>
<title> Country vs Capital </title>
<style type="text/css">
input
{
    font-family:Verdana;
    font-weight: bold;
    color:blue;
    font-size: 12px
}
</style>
<script>
function fun()
{
var a=document.f3.con.value;
var res="";
var cur="";
switch(a)
{
case "INDIA": res="DELHI";
break;
case "CHINA": res="BEJING";
break;
case "SRILANKA": res="COLOUMBO";
break;
```

```
case "AUSTRALIA": res="CANBERRY";
break;
case "ENGLAND": res="LONDON";
break;
}
f3.capital.value=res;
f3.currency.value=cur;
}
</script>
<body bgcolor=#D6E9EF>
<font color=Red>
<h1> Countries vs. Capitals</h1>
</font>
<form name=f3>
<font color=green size=5>
Country<select name=con onchange="fun()">
<option>Select</option>
<option>INDIA</option>
<option>CHINA</option>
<option>SRILANKA</option>
<option>AUSTRALIA</option>
<option>ENGLAND</option>
</select>
Capital<input type="text" name=capital>
</font></form>
</body>
</html>
```

Output Screen:



5. Create an XML document that contains 10 users information. Write a java program, which takes user id as input and returns the user details by taking the user information from the XML document using DOM parser.

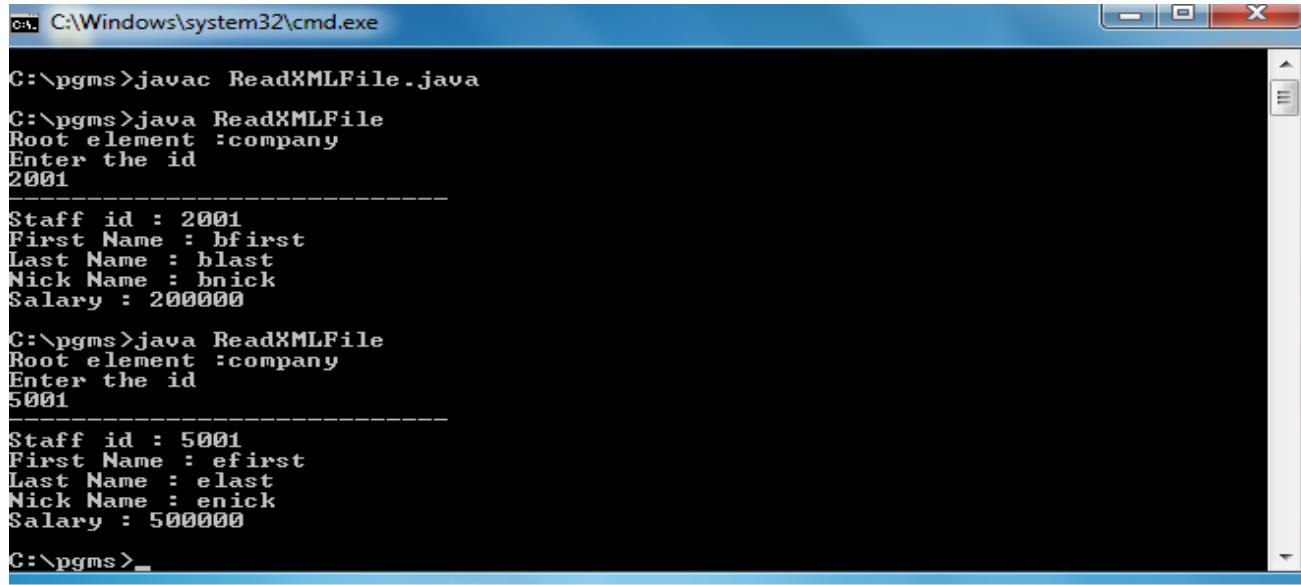
5a.xml

```
<?xml version="1.0"?>
<company>
    <staff id="1001">
        <firstname>afirst</firstname>
        <lastname>alast</lastname>
        <nickname>anick</nickname>
        <salary>100000</salary>
    </staff>
    <staff id="2001">
        <firstname>bfirst</firstname>
        <lastname>blast</lastname>
        <nickname>bnick</nickname>
        <salary>200000</salary>
    </staff>
    <staff id="3001">
        <firstname>cfirst</firstname>
        <lastname>clast</lastname>
        <nickname>cnick</nickname>
        <salary>300000</salary>
    </staff>
    <staff id="4001">
        <firstname>dfirst</firstname>
        <lastname>dlast</lastname>
        <nickname>dnick</nickname>
        <salary>400000</salary>
    </staff>
    <staff id="5001">
        <firstname>efirst</firstname>
        <lastname>elast</lastname>
        <nickname>enick</nickname>
        <salary>500000</salary>
    </staff>
</company>
```

ReadXmlFile.java

```
import javax.xml.parsers.DocumentBuilderFactory;
import javax.xml.parsers.DocumentBuilder;
import org.w3c.dom.Document;
import org.w3c.dom.NodeList;
import org.w3c.dom.Node;
import org.w3c.dom.Element;
```

```
import java.io.File;
import java.util.Scanner;
public class ReadXMLFile {
    public static void main(String argv[]) {
        try {
            File fXmlFile = new File("C:/Users/Acer/Desktop/5a.xml");
            DocumentBuilderFactory dbFactory = DocumentBuilderFactory.newInstance();
            DocumentBuilder dBuilder = dbFactory.newDocumentBuilder();
            Document doc = dBuilder.parse(fXmlFile);
            doc.getDocumentElement().normalize();
            System.out.println("Root element :" + doc.getDocumentElement().getNodeName());
            NodeList nList = doc.getElementsByTagName("staff");
            Scanner in =new Scanner(System.in);
            System.out.println("Enter the id");
            int n=in.nextInt();
            System.out.println("-----");
            for (int temp = 0; temp < nList.getLength() ; temp++) {
                Node nNode = nList.item(temp);
                if (nNode.getNodeType() == Node.ELEMENT_NODE) {
                    Element eElement = (Element) nNode;
                    if((Integer.toString(n)).equals(eElement.getAttribute("id")))
                        {
                            System.out.println("Staff id : " + eElement.getAttribute("id"));
                            System.out.println("First Name : " +
eElement.getElementsByTagName("firstname").item(0).getTextContent());
                            System.out.println("Last Name : " +
eElement.getElementsByTagName("lastname").item(0).getTextContent());
                            System.out.println("Nick Name : " +
eElement.getElementsByTagName("nickname").item(0).getTextContent());
                            System.out.println("Salary : " +
eElement.getElementsByTagName("salary").item(0).getTextContent());
                        }
                }
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

Output Screens:


```
C:\Windows\system32\cmd.exe
C:\pgms>javac ReadXMLFile.java
C:\pgms>java ReadXMLFile
Root element :company
Enter the id
2001
-----
Staff id : 2001
First Name : bfirst
Last Name : blast
Nick Name : bnick
Salary : 200000
C:\pgms>java ReadXMLFile
Root element :company
Enter the id
5001
-----
Staff id : 5001
First Name : efirst
Last Name : elast
Nick Name : enick
Salary : 500000
C:\pgms>_
```

6 i) A user validation web application, where the user submits the loin name and password to the server. The name and password are checked against the data already available in Database and if the data matches, a successful loin page is returned. Otherwise a failure message is shown to the user.

Sql Queries:

```
create table login(name varchar(30),password varchar(30),PRIMARY KEY(name));
insert into login values('wt','wtlab');
insert into login values('kits','kits123');
```

PHP Code:**login.php**

```
<html>
<head>
<style type="text/css">
Input
{
border:1px solid olive;
border-radius:5px;
}

h1{
color:darkgreen;
font-size:22px;
text-align:center;
```

```

}
</style>
</head>
<body>
<h1>Login</h1>
<form action="#" method='post'>
<table cellspacing='5' align='center'>
<tr><td>User name:</td><td><input type='text' name='name' /></td></tr>
<tr><td>Password:</td><td><input type='password' name='pwd' /></td></tr>
<tr><td></td><td><input type='submit' name='submit' value='Submit' /></td></tr>
</table>
</form>
<?php
session_start();
if(isset($_POST['submit']))
{
mysql_connect('localhost','root','root123') or die(mysql_error());
mysql_select_db('new') or die(mysql_error());
$name=$_POST['name'];
$pwd=$_POST['pwd'];
if($name!=""&&$pwd!="")
{
$query=mysql_query("select * from login where name='".$name."' and password='".$pwd."'") or
die(mysql_error());
$res=mysql_fetch_row($query);
if($res)
{
$_SESSION['name']=$name;
header('location:welcome.php');
}
else
{
echo'You entered username or password is incorrect';
}
}
else
{
echo'Enter both username and password'; }
?>
</body>
</html>

```

Welcome.php

```

<html>
<body>
Welcome <br>
<?php
    session_start();
    $name=$_SESSION['name'];

```

```
echo'<b>welcome :</b>'. $name.'<br>';
?>
</body>
</html>
```

Output Screens:





Servlet Code:

Validdb.html

```
<html>
<head>
<title>validation</title>
<body>
<form method="POST" action="http://localhost:8080/wtlab/valid">
<center><b>username</b><input type="text" name="user"/>
<p>
<b>password</b><input type="password" name="password"/>
</p>
</center>
<br/>
```

```
<center><input type="submit" value="submit"/></center>
</form>
</body>
</html>
```

Valid.java

```
import javax.servlet.*;
import javax.servlet.http.*;
import java.io.*;
import java.sql.*;
public class valid extends HttpServlet
{
    public String N,P;
    public void doPost(HttpServletRequest req,HttpServletResponse res) throws
    IOException,ServletException
    {
        String N,P;
        res.setContentType("text/html");
        PrintWriter out=res.getWriter();
        N=req.getParameter("user");
        P=req.getParameter("password");
        Connection con=null;
        Statement stmt=null;
        ResultSet rs=null;
        try
        {
            Class.forName("com.mysql.jdbc.Driver").newInstance();
            con=DriverManager.getConnection("jdbc:mysql://localhost:3306/new","root","root123");
            stmt=con.createStatement();
            rs=stmt.executeQuery("select * from login where name='"+N+"' and password='"+P+"'");
            if(rs.next())
            { out.println(" YOU ARE AN AUTHENTIC USER"); }
            else
            {
                out.println("YOU ARE NOT AN AUTHENTIC USER"); }
            rs.close();
            stmt.close();
            con.close();
        }
        catch(Exception e)
        {
            out.println(e);
        }
    }
}
```

Web.xml

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<web-app xmlns="http://java.sun.com/xml/ns/javaee"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="http://java.sun.com/xml/ns/javaee
        http://java.sun.com/xml/ns/javaee/web-app_3_0.xsd" version="3.0" metadata-complete="true">
    <display-name>Welcome to Tomcat</display-name>
    <description>
        Welcome to Tomcat
    </description>
    <servlet>
        <servlet-name>HelloServlet1</servlet-name>
        <servlet-class>valid</servlet-class>
    </servlet>
    <servlet-mapping>
        <servlet-name>HelloServlet1</servlet-name>
        <url-pattern>/valid</url-pattern>
    </servlet-mapping>
</web-app>
```

Output Screens:





Jsp Code:

valid.html

```
<html>
<head>
<title>cookie</title>
<body>
```

```
<form method="POST" action="http://localhost:8080/wtlab/valid.jsp">
<center><b>username</b><input type="text" name="user"/>
<p>
<b>password</b><input type="password" name="password"/>
</p>
</center>
<br/>
<center><input type="submit" value="submit"/></center>
</form>
</body>
</html>
```

valid.jsp

```
<%@ page language="java" import="java.sql.*" %>
<html>
<head><title>JSPprog</title>
</head>
<body>
<%! String N,P; %>
<% N=request.getParameter("user");
P=request.getParameter("password");
Connection con=null;
Statement stmt=null;
ResultSet rs=null;
try
{
Class.forName("com.mysql.jdbc.Driver").newInstance();
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/new","root","root123");
stmt=con.createStatement();
rs=stmt.executeQuery("select * from login where name='"+N+"' and password='"+P+"'");
if(rs.next())
{
out.println(" YOU ARE AN AUTHENTIC USER");
}
else
{
out.println("YOU ARE NOT AN AUTHENTIC USER");
}
rs.close();
stmt.close();
con.close();
}
catch(Exception e) { out.println(e);
} %>
</body>
</html>
```

Output Screens:

A screenshot of a web browser window titled "cookie". The address bar shows "localhost:9090/wtlab/valid.html". The page contains two input fields: "username vt" and "password *****". Below the password field is a "submit" button.



A screenshot of a web browser window titled "cookie". The address bar shows "localhost:9090/wtlab/valid.html". The form contains two text input fields: "username" with the value "hello" and "password" with the value "*****". Below the password field is a "submit" button.



6 ii) Modify the above program to use an XML file instead of database.

PHP Code:

users.xml

```
<users>
<user>
<username>user1</username>
<password>user1</password>
</user>
<user>
<username>user2</username>
<password>user2</password>
</user>
```

```
<user>
<username>user3</username>
<password>user3</password>
</user>
</users>
```

form6(2).html

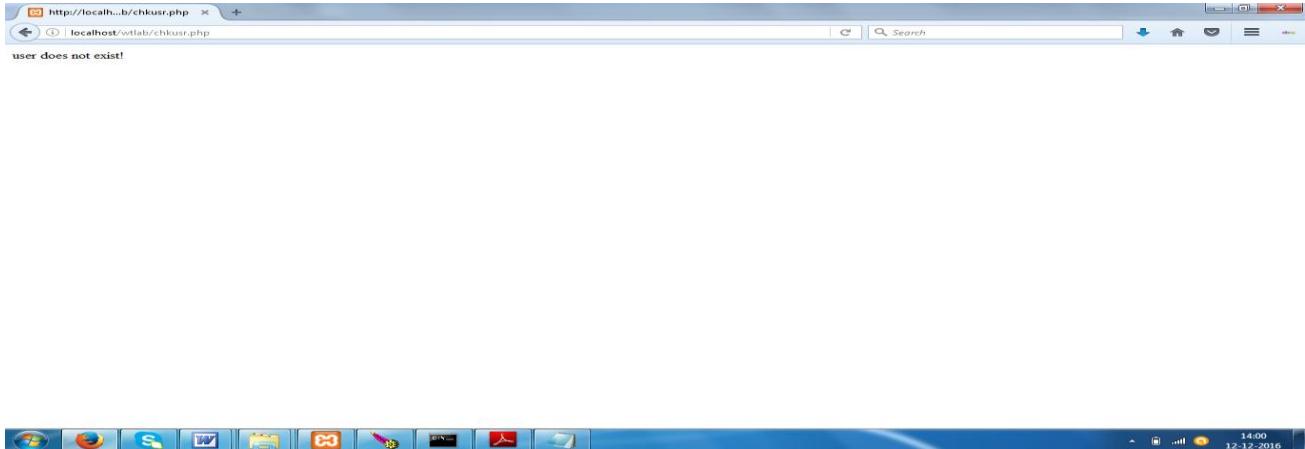
```
<form action='chkusr.php' method='post'>
<center>
Login<br>
User name: <input type='text' name='user'><br>
Password: <input type='password' name='pass'><br><br>
<input type='submit' value='Login'>
</center>
</form>
```

chkusr.php

```
<?php
$user = $_POST['user'];
$pass = $_POST['pass'];
$flag = 0;
if ($user && $pass)
{
$xml = simplexml_load_file("users.xml");
$cnt = count($xml->user);
for($i = 0; $i < $cnt; $i++)
{
$username = $xml->user[$i]->username;
$password = $xml->user[$i]->password;
if ($user == $username && $pass == $password)
{
print "Hello " . $user;
$flag = 0;
break;
}
else
$flag = 1;
}
if ($flag == 1)
print "user does not exist!";
}
else
die("please enter a username and password!");
?>
```

Output Screens:





Servlet Code:

loginservlet.html

```
<html>
<body>
<form method="get" action="http://localhost:8080/wtlab/init">
<center><table>
<tr>
<td><b>user name:</b></td>
<td><input type="text" name="uname"></td>
</tr><tr>
<td><b>password:</b></td>
<td><input type="password" name="pwd"></td>
</tr>
<tr>
<td></td>
<td><input type="submit" value="login">&nbsp;&nbsp;&nbsp;<input type="reset" value="reset"></td>
</tr>
</table></center></form>
</body>
</html>
```

InitParamServlet.java

```
import javax.servlet.*;
import javax.servlet.http.*;
import java.io.*;
import java.sql.*;
public class InitParamServlet extends HttpServlet
{
    public String u,p;
    public void init(ServletConfig config) throws ServletException{
        u=config.getInitParameter("username");
```

```
p=config.getInitParameter("password");
}
public void doGet(HttpServletRequest req,HttpServletResponse res) throws
IOException,ServletException
{
String un,pass;
res.setContentType("text/html");
PrintWriter out=res.getWriter();
un=req.getParameter("uname");
pass=req.getParameter("pwd");
if(u.equals(un)&&p.equals(pass))
out.println("<h1>hi"+un+"...<br><center>successfully logged in</center></h1>");
else
out.println("<h1>hi"+un+"...<br><center>Invalid Username or Password</center></h1>");
}
}
```

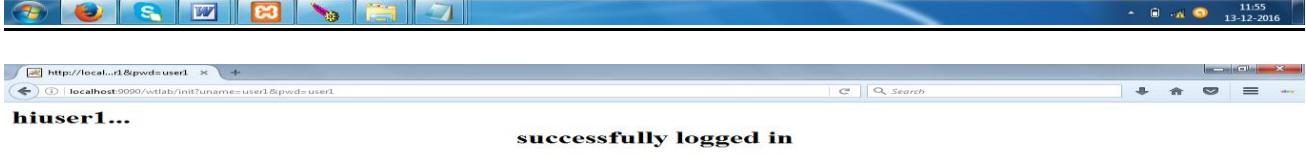
Web.xml

```
<web-app>
<servlet>
<servlet-name>hello</servlet-name>
<servlet-class> InitParamServlet</servlet-class>
<init-param>
<param-name>username</param-name>
<param-value>user1</param-value>
</init-param>
<init-param>
<param-name>password</param-name>
<param-value>user1</param-value>
</init-param>
</servlet>
<servlet-mapping>
<servlet-name>hello</servlet-name>
<url-pattern>/init</url-pattern>
</servlet-mapping>
</web-app>
```

Output Screens:



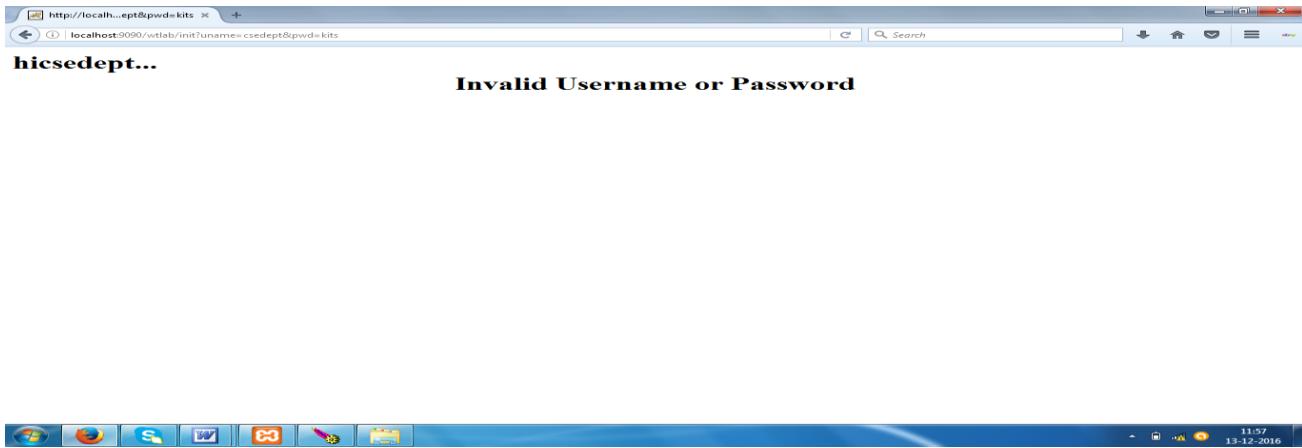
A screenshot of a web browser window showing a login form. The URL in the address bar is `http://localhost:9090/wtlab/loginServlet.html`. The form has two text input fields: "user name: user1" and "password: ****". Below the password field are two buttons: "login" and "reset".



A screenshot of a web browser window showing a successful login message. The URL in the address bar is `http://localhost:9090/wtlab/init?uname=user1&pwd=user1`. The page displays the text "hiuser1..." and "successfully logged in".



A screenshot of a web browser window showing a login form. The URL in the address bar is `http://localhost:9090/wtlab/loginServlet.html`. The form has two text input fields: "user name: csedep" and "password: ***". Below the password field are two buttons: "login" and "reset".



Jsp Code:

login.jsp.html

```
<html>
<head>
<title>6(ii)jsp</title>
<body>
<form method="get" action="http://localhost:8080/wtlab/initparam">
<center><b>username</b><input type="text" name="user"/>
<p>
<b>password</b><input type="password" name="password"/>
</P>
</center>
<br/>
<center><input type="submit" value="submit"/></center>
</form>
</body></html>
```

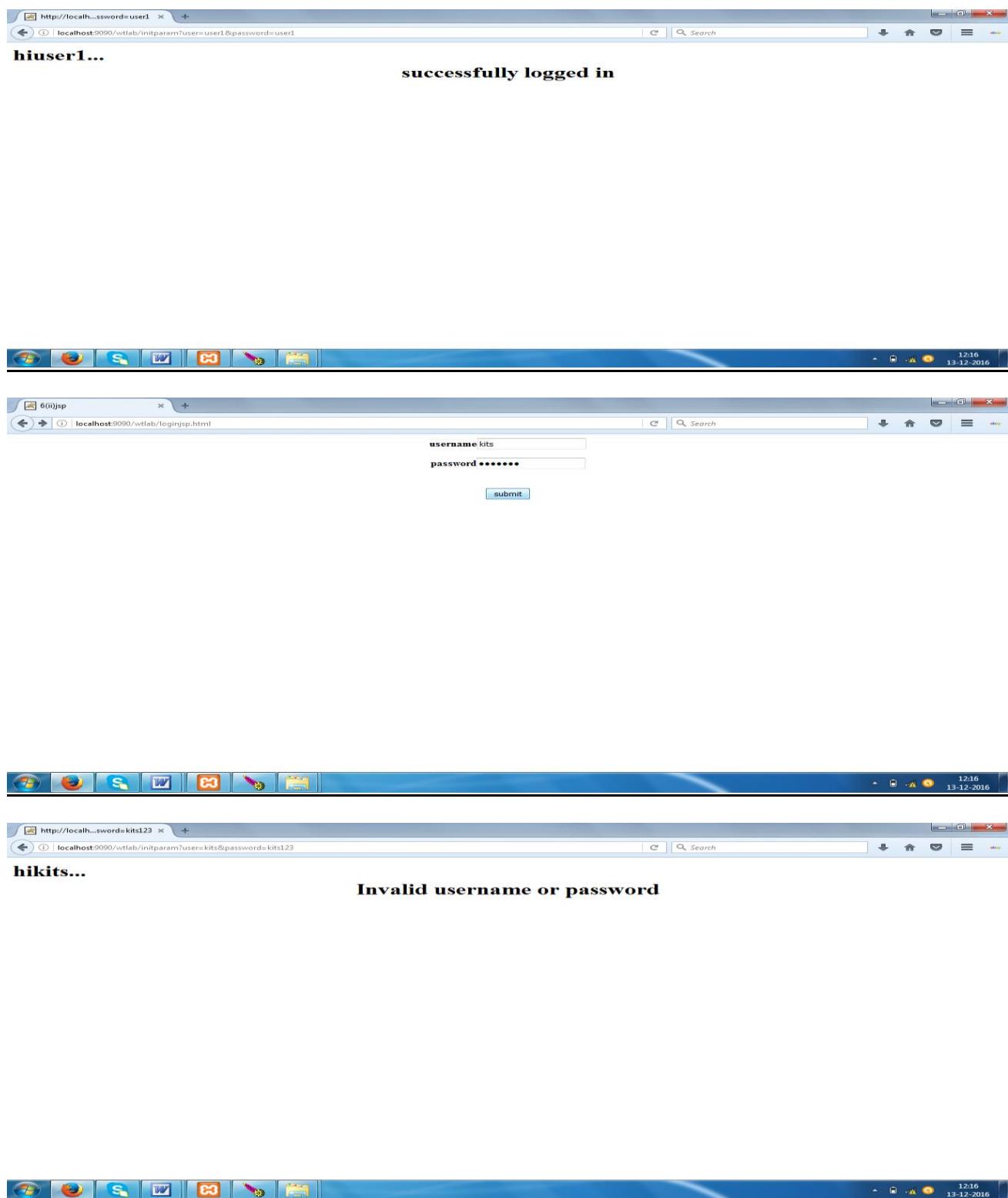
log.jsp

```
<%@ page import="javax.servlet.*"%>
<%@ page import="java.util.*"%>
<% String u,p,un,pass;
u=config.getInitParameter("un2");
p=config.getInitParameter("pwd2");
response.setContentType("text/html");
un=request.getParameter("user");
pass=request.getParameter("password");
if(u.equals(un) && p.equals(pass))
out.println("<h1>hi"+un+"...<br><center>successfully logged in</center></h1>");
else
out.println("<h1>hi"+un+"...<br><center>Invalid username or password</center></h1>");%>
```

Web.xml

```
<web-app>
<servlet>
<servlet-name>hellojsp</servlet-name>
<jsp-file>/log.jsp</jsp-file>
<init-param>
<param-name>un2</param-name>
<param-value>user1</param-value>
</init-param>
<init-param>
<param-name>pwd2</param-name>
<param-value>user1</param-value>
</init-param>
</servlet>
<servlet-mapping>
<servlet-name>hellojsp</servlet-name>
<url-pattern>/initparam</url-pattern>
</servlet-mapping>
</web-app>
```

Output Screens:



6 iv) A simple calculator web application that takes two numbers and an operator (+,-,/,* and %) from an HTML page and returns the result page with the operation performed on the operands.

PHP Code:

form.html

```
<html>
<head>
</head>
<body >
<form action="result.php" method="post">
<center>
<h1>Operand 1*<input type="text" name="opr1" required><br><br>
Operand 2*<input type="text" name="opr2" required><br><br></h1>
<select name="opr">
<option value="+">>+</option>
<option value="-">>-</option>
<option value="*">>*</option>
<option value="/"">>/</option>
<option value="%">>%</option>
</select>
<br><br>
<input type="submit" value="Submit">
</center>
</form>
</body>
</html>
```

result.php

```
<html>
<head>
<title>calculator program</title>
</head>
<body>
<?php
$opr1=$_POST["opr1"];
$opr2=$_POST["opr2"];
$opr=$_POST["opr"];
if($opr=="+")
$res=$opr1+$opr2;
else if($opr=="-")
$res=$opr1-$opr2;
else if($opr=="*")
$res=$opr1*$opr2;
else if($opr=="/")
$res=$opr1/$opr2;
```

```

else if($opr=="%")
$res=$opr1%$opr2;
echo $opr1."".$opr."".$opr2."=".$res;
?>
</body>
</html>

```

Output Screens:

http://localhost/vtlab/form6(4).html

localhost/vtlab/form6(4).html

Operand 1*: 10

Operand 2*: 20

Multiplication

Submit



Servlet Code:

indexserv.html

```

<html>
  <body>
    <form method="get" action=".CalculateServlet">
      Number 1 : <input type="text" name="no1"> <br>
      Number 2 : <input type="text" name="no2"> <br>
      Operator :

```

```

<select name="opt">
    <option value="p"> + </option>
    <option value="m"> - </option>
    <option value="mul"> * </option>
    <option value="d"> / </option>
    <option value="mod"> % </option>

</select> <br>
<input type="submit" value="Go">
</form>
</body>
</html>

```

CalculateServlet.java

```

import java.io.*;
import javax.servlet.*;
public class CalculateServlet extends HttpServlet
{
    public void doPost(HttpServletRequest request,HttpServletResponse response) throws
IOException,ServletException
    {
        PrintWriter out = response.getWriter();
        String n1 = request.getParameter("no1");
        String n2 = request.getParameter("no2");
        String opt = request.getParameter("opt");
        if(opt.equals("p"))
            out.println(Integer.parseInt(n1) + Integer.parseInt(n2));
        else if(opt.equals("m"))
            out.println(Integer.parseInt(n1) - Integer.parseInt(n2));
        else if(opt.equals("mul"))
            out.println(Integer.parseInt(n1) * Integer.parseInt(n2));
        else if(opt.equals("d"))
            out.println(Integer.parseInt(n1) / Integer.parseInt(n2));
        else if(opt.equals("mod"))
            out.println(Integer.parseInt(n1) % Integer.parseInt(n2));
    }
    public void doGet(HttpServletRequest request,HttpServletResponse response) throws
IOException,ServletException
    {
        doPost(request,response);
    }
}

```

Web.xml

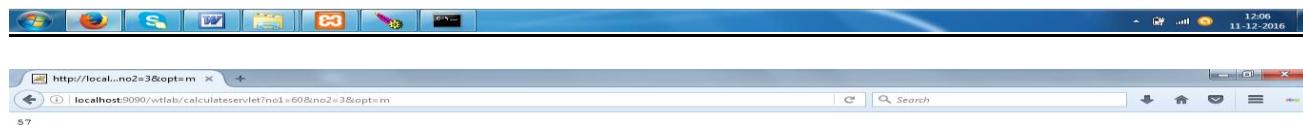
```

<servlet>
    <servlet-name>HelloServlet</servlet-name>

```

```
<servlet-class>CalculateServlet</servlet-class>
</servlet>
<servlet-mapping>
    <servlet-name>HelloServlet</servlet-name>
    <url-pattern>/CalculateServlet</url-pattern>
</servlet-mapping>
```

Output Screens:



Jsp Code:

form.jsp.html

```
<html>
    <head>
    </head>
    <body>
        <form action="basic.jsp" METHOD="POST">
            Number 1 : <input type="text" name="no1"> <br>
```

Number 2 : <input type="text" name="no2">

Operator :

```

<select name="opt">
    <option value="p"> + </option>
    <option value="m"> - </option>
    <option value="mul"> * </option>
    <option value="d"> / </option>
    <option value="mod"> % </option>
</select>
<br>
<input type="submit" value="Go">
</form>
</body>
</html>

```

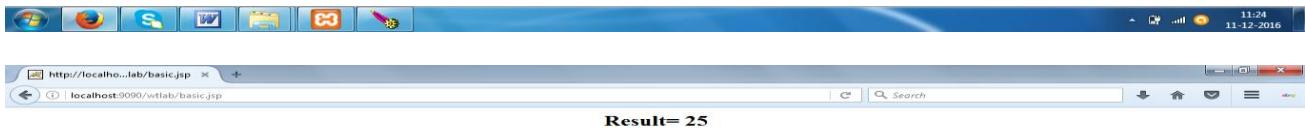
basic.jsp

```

<html>
    <head>
    </head>
    <body>
        <h2>
            <CENTER>
                Result=
                <%
                    String n1 = request.getParameter("no1");
                    String n2 = request.getParameter("no2");
                    String opt = request.getParameter("opt");
                    if(opt.equals("p"))
                        out.println(Integer.parseInt(n1) + Integer.parseInt(n2));
                    else if(opt.equals("m"))
                        out.println(Integer.parseInt(n1) - Integer.parseInt(n2));
                    else if(opt.equals("mul"))
                        out.println(Integer.parseInt(n1) * Integer.parseInt(n2));
                    else if(opt.equals("d"))
                        out.println(Integer.parseInt(n1) / Integer.parseInt(n2));
                    else if(opt.equals("mod"))
                        out.println(Integer.parseInt(n1) % Integer.parseInt(n2));
                %>
            </CENTER>
        </h2>
    </body>
</html>

```

Output Screens:



6 v) Modify the above program such that it stores each query in a database and checks the database first for the result. If the query is already available in the DB, it returns the value that was previously computed (from DB) or it computes the result and returns it after storing the new query and result in DB.

Sql:

Database Name: wtlab

Table Name: calc

Fields(4): opr1, opr, opr2, res

PHP Code:

form6(5).html

```
<html>
<head>
</head>
```

```

<body>
<form action="caldresult.php" method="post">
Operand 1*<input type="text" name="opr1" required><br><br>
Operand 2*<input type="text" name="opr2" required><br><br>
<select name="opr">
<option value="+">>+</option>
<option value="-">>-</option>
<option value="*">>*</option>
<option value="/"">>/</option>
<option value="%">>%</option>
</select>
<br><br>
<input type="submit" value="Submit">
</form>
</body>
</html>

```

caldresult.php

```

<html>
  <head></head>
<body>
<?php
$username="root";
$password="root123";
$database="wtlab";
mysql_connect("localhost",$username,$password);
@mysql_select_db($database) or die( "Unable to select database");
$res=0;
$opr1=$_POST["opr1"];
$opr2=$_POST["opr2"];
$opr=$_POST["opr"];
$found=0;
$sql="SELECT * FROM calc;";
$qresult=mysql_query($sql);
while($data = mysql_fetch_row($qresult)){
if($data[0]==$opr1 && $data[1]==$opr && $data[2]==$opr2)
{
$res=$data[3];
$found=1;
}
}
if($found==0)
{
if($opr=="+")
$res=$opr1+$opr2;
else if($opr=="-")
$res=$opr1-$opr2;
}

```

```

else if($opr=="*")
$res=$opr1*$opr2;
else if($opr=="/")
$res=$opr1/$opr2;
else if($opr=="% ")
$res=$opr1%$opr2;
$query = "INSERT INTO calc VALUES ($opr1,$opr,$opr2,$res)";
mysql_query($query);
}
if($opr2==0)
{
echo "operation cannot be performed<br>";
}
else
{
echo $opr1."".$opr."".$opr2."=".$res;
}
echo "<br>";
if($found==0)
echo "<br> NOT FOUND IN DATABASE";
else
echo "<br> FOUND IN DATABASE";
mysql_close();

?>
</body>
</html>

```

Output Screens:

http://localhost/form6(5).html localhost / 127.0.0.1 / wtla... +

localhost/wtlab/form6(5).html

Operand 1*: 25

Operand 2*: 15

+ - * /

Submit





Servlet Code:

Indexdbs.html:

```
<html>
<body>
<form method="POST" action="http://localhost:8080/wtlab/calcdb">
    Number 1 : <input type="text" name="n1"> <br>
    Number 2 : <input type="text" name="n2"> <br>
    Operator :
    <select name="opt">
        <option value="+"> + </option>
        <option value="-"> - </option>
        <option value="* "> * </option>
        <option value="/"> / </option>
        <option value="% "> % </option>
    </select> <br>
    <input type="submit" value="Go">
</form>
```

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

calcdb.java

```
import javax.servlet.http.*;
import javax.servlet.*;
import java.sql.*;
import java.io.PrintWriter;
import java.io.IOException;
public class calcdb extends HttpServlet
{
    public void doPost(HttpServletRequest request,HttpServletResponse response) throws
    ServletException,IOException
    {
        try
        {
            response.setContentType("text/html");
            PrintWriter out=response.getWriter();
            int no1,no2;
            String op;
            no1=Integer.parseInt(request.getParameter("n1"));
            no2=Integer.parseInt(request.getParameter("n2"));
            op=request.getParameter("opt");
            Class.forName("com.mysql.jdbc.Driver").newInstance();
            Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/wtlab","root","root123");
            Statement st=con.createStatement();
            ResultSet rs=st.executeQuery("select * from calc where opr1='"+no1+"' and opr2='"+no2+"' and opr='"+op+"'");

            if(rs.next())
            {
                out.println("<h1>operation already exist in the database");
                out.println("<br>Number1:"+no1);
                out.println("<br>Number2:"+no2);
                out.println("<br>operator:"+op);
                out.println("<br>Result:"+rs.getString(4));
            }
            else
            {
                int res=0;
                if(op.equals("+"))
                    res=no1+no2;
                if(op.equals("-"))
                    res=no1-no2;
                if(op.equals("*"))
                    res=no1*no2;
                if(op.equals("/"))
                    res=no1/no2;
            }
        }
    }
}
```

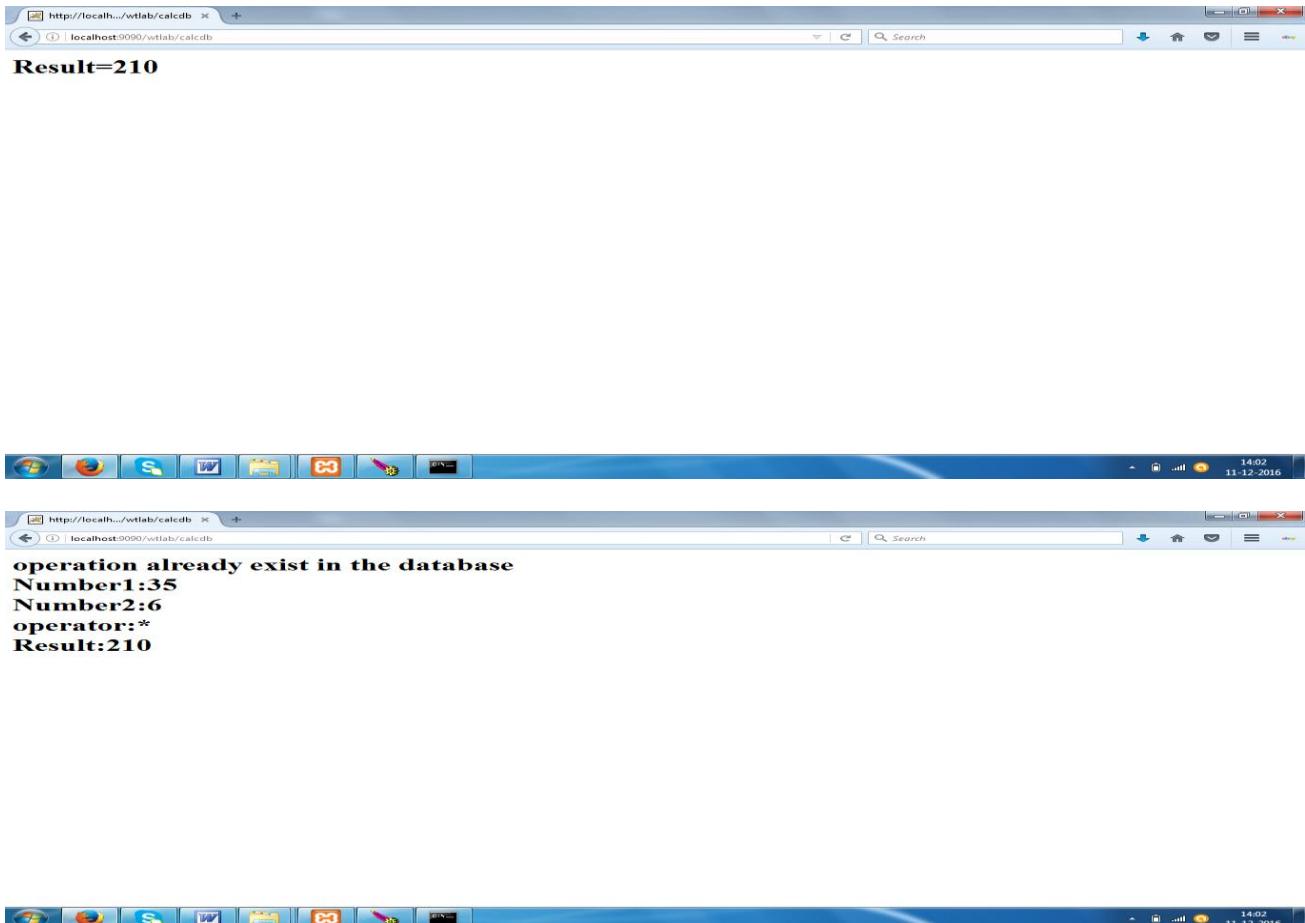
```
if(op.equals("%"))
res=no1%no2;
int x=st.executeUpdate("insert into calc values(\"+no1+\""+op+"\"+no2+\""+res+"\")");
if(x>0)
out.println("<h1>Result="+res+"</h1>");
else
out.println("<h1>Error in Insertion</h1>");
}
}
catch(Exception e)
{
e.printStackTrace();
}
}
}
```

Web.xml

```
<servlet>
  <servlet-name>HelloServlet2</servlet-name>
  <servlet-class>calcdb</servlet-class>
</servlet>
<servlet-mapping>
  <servlet-name>HelloServlet2</servlet-name>
  <url-pattern>/calcdb</url-pattern>
</servlet-mapping>
```

Output Screens:



**JSP Code:****indexdb.jsp**

```
<html>
<body>
<form method="POST" action="http://localhost:8080/wtlab/calcdb.jsp">
    Number 1 : <input type="text" name="n1"> <br>
    Number 2 : <input type="text" name="n2"> <br>
    Operator :
    <select name="opt">
        <option value="+"> + </option>
        <option value="-"> - </option>
        <option value="*"/> * </option>
        <option value="/"> / </option>
        <option value="%"/> % </option>
    </select> <br>
    <input type="submit" value="Go">
</form>
</body>
```

</html>

calcdb.jsp

```
<%@page language="java" import="java.sql.*"%>
<%
int no1,no2;
String op;
no1=Integer.parseInt(request.getParameter("n1"));
no2=Integer.parseInt(request.getParameter("n2"));
op=request.getParameter("opt");
Class.forName("com.mysql.jdbc.Driver").newInstance();
Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/wtlab","root","root123");
Statement st=con.createStatement();
ResultSet rs=st.executeQuery("select * from calc where opr1='"+no1+"'and opr2='"+no2+"'and opr='"+op+"' ");
if(rs.next())
{
out.println("<h1>operation already exist in the database");
out.println("<br>Number1:"+no1);
out.println("<br>Number2:"+no2);
out.println("<br>operator:"+op);
out.println("<br>Result:"+rs.getString(4));
}
else
{
int res=0;
if(op.equals("+"))
res=no1+no2;
if(op.equals("-"))
res=no1-no2;
if(op.equals("*"))
res=no1*no2;
if(op.equals("/"))
res=no1/no2;
if(op.equals("%"))
res=no1%no2;
int x=st.executeUpdate("insert into calc values('"+no1+"','"+op+"','"+no2+"','"+res+"')");
if(x>0)
out.println("<h1>Result="+res+"</h1>");
else
out.println("<h1>Error in Insertion</h1>");
}
%>
```

Output Screens:



6 vi) A web application takes a name as input and on submit it shows a hello<name> page where <name> is taken from the request. It shows the start time at the right top corner of the page and provides a logout button. On clicking this button, it should show a logout page with Thank you<name> message with the duration of usage (hint: Use session to store name and time).

PHP Code:

form6(6).html

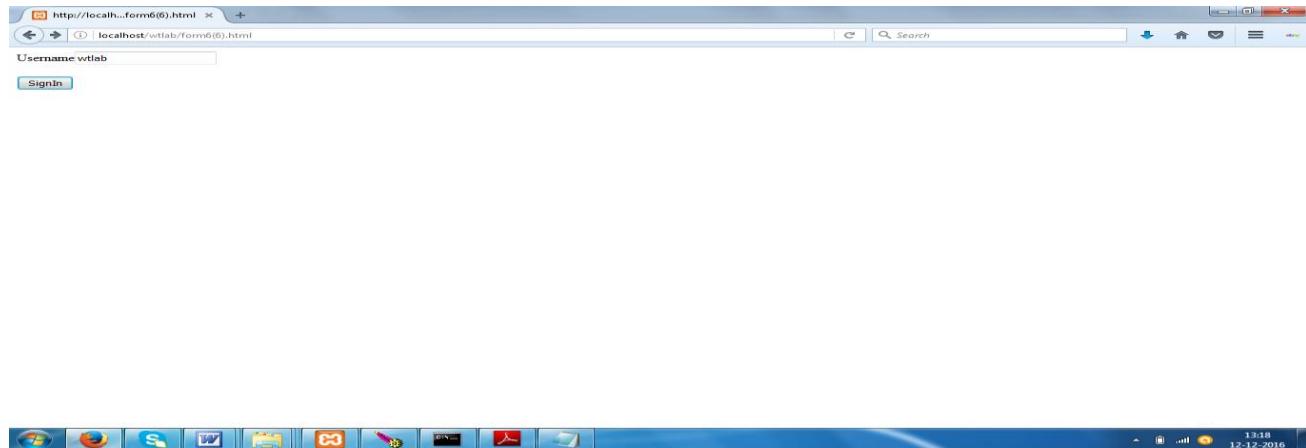
```
<html>
<form action="home6.php" method="post">
Username<input type="text" name="text1"><br><br>
<input type="submit" value="SignIn" name="submit">
</form>
</html>
```

home6.php

```
<?php
session_start();
date_default_timezone_set("Asia/Calcutta");
$_SESSION['luser'] = $_POST['text1'];
$_SESSION['start'] = time();
$tm=$_SESSION['start'];
print "<p align='right'>Session started at " . date("h:i:sa",$tm) . "<br>";
print "<form action='logoutpage.php' method='post'>";
print "<input type='submit' value='Logout'></p>";
print "</form>";
print "Hello " . $_SESSION['luser'];
?>
```

logoutpage.php

```
<?php
session_start();
date_default_timezone_set("Asia/Calcutta");
print "<p align='right'>Session started at " . date("h:i:sa",time()) . "</p><br>";
print "Thank you " . $_SESSION['luser'];
$sessiontime = time() - $_SESSION['start'];
print "<br> Your session duration: " . $sessiontime . " seconds";
session_destroy();
?>
```

Output Screens:



Servlet Code:

session.html

```
<html>
<head>
<title>hello</title>
</head>
<body>
<form method="get" action="http://localhost:8080/wtlab/session1" >
<h2>User Name:<input type="text" name="uname"><br><br></h2>
<input type="submit" value="login">
</form>
</body>
</html>
```

session1.java

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

```

import java.io.*;
import java.util.*;
public class session1 extends HttpServlet
{
public void doGet(HttpServletRequest req,HttpServletResponse res) throws IOException, ServletException
{
String un;
res.setContentType("text/html");
PrintWriter out=res.getWriter();
out.println("<form method=get action=session2>");
Date d=new Date();
out.println("<p align=right>time:"+d.getTime()+"</p>");
un=req.getParameter("uname");
HttpSession session=req.getSession();
session.setAttribute("user",un);
session.setAttribute("time",d.getTime());
out.println("hi"+un);
out.println("<br><br><input type=submit value=logout>");
out.println("</form>");
}
}

```

session2.java

```

import javax.servlet.*;
import javax.servlet.http.*;
import java.io.*;
import java.util.*;
public class session2 extends HttpServlet
{
public void doGet(HttpServletRequest req,HttpServletResponse res) throws
IOException,ServletException
{
String un;
res.setContentType("text/html");
PrintWriter out=res.getWriter();
HttpSession session=req.getSession();
Date d2=new Date();
un=(String)session.getAttribute("user");
Long t1=(Long)session.getAttribute("time");
Long t2=d2.getTime();
session.invalidate();
out.println("<br><br>thankU"+un+"!!!");
out.println("<br><br>session duration:"+ (t2-t1)/(60*60)+"seconds");
}
}

```

Web.xml

```
<web-app>
<servlet>
<servlet-name>hello</servlet-name>
<servlet-class>session1</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>hello</servlet-name>
<url-pattern>/session1</url-pattern>
</servlet-mapping>
<servlet>
<servlet-name>hi</servlet-name>
<servlet-class>session2</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>hi</servlet-name>
<url-pattern>/session2</url-pattern>
</servlet-mapping>
</web-app>
```

Output Screens:



Jsp Code:

form.jsp6(vi).html

```
<html>
<head>
<title>hello</title>
</head>
<body>
<form action="http://localhost:8080/wtlab/session.jsp" method="get">
<h1>user name: <input type="text" name="uname"><br></h1>
<input type="submit" value="login">
</form>
</body>
</html>
```

Session.jsp

```
<%@ page import="java.util.*"%>
<form method="get" action="http://localhost:8080/wtlab/session2.jsp">
```

```

<%
Date d=new Date();
%>
<p align=right>time:<%=d.getTime()%></p>
<%
String un=request.getParameter("uname");
request.getSession();
session.setAttribute("user",un);
session.setAttribute("time",d.getTime());
%>
Hi<%=un%>
<br><br><input type="submit" value="logout">
</form>

```

Session2.jsp

```

<%@page import="java.util.*"%>
<%
Date d2=new Date();
String un=(String)session.getAttribute("user");
Long t1=(Long)session.getAttribute("time");
Long t2= d2.getTime();
%>
thankU<%=un%>!!!
<br><br>
session duration:<%=(t2-t1)/(60*60)%>seconds
<%session.invalidate();%>

```

Output Screens:





6 vii) A web application that takes name and age from an HTML page. If the age is less than 18, it should send a page with "hello<name>, you are not authorized to visit this site" message, where <name> should be replaced with the entered name. Otherwise it should send "welcome <name> to this site" message.

PHP Code:

ageform.html

```
<html>
<head>
<title>age form</title>
</head>
<body>
<form action='age.php' method='post'>
```

```
<center>
Login<br>
<table>
<tr><td>User Name:</td><td> <input type='text' name='name'></td></tr>
<tr><td>Age:</td><td> <input type='text' name='age'></td></tr><br>
</table>
<input type='submit' value='Login'>
</body>
</html>
```

age.php

```
<?php
$name = $_POST['name'];
$age = $_POST['age'];
if ($age < 18)
print "Hello " . $name . " ,you are not authorized to visit this site .";
else
print "Welcome " . $name . " to this site."
?>
```

Output Screens:





Servlet Code:

access.html

```
<html>
<head>
</head>
<body>
<form action="http://localhost:8080/wtlab/checkage" method="get">
NAME*<input type="text" name="name" required><br><br>
AGE*<input type="text" name="age" required><br><br>
<br><br>
<input type="submit" value="Submit">
</form>
</body>
</html>
```

checkage.java

```
import javax.servlet.http.*;
import javax.servlet.*;
import java.io.*;
public class checkage extends HttpServlet
{
public void doGet(HttpServletRequest req,HttpServletResponse res) throws ServletException,IOException
{
try
{
res.setContentType("text/html");
PrintWriter out = res.getWriter();
int age = Integer.parseInt(req.getParameter("age"));
String name = req.getParameter("name");
if(age <= 18)
{
out.println("<h1>Hello " + name + ", you are not authorized to visit this site</h1>");
}
else
{
out.println("<h1>welcome " + name + ", to this site</h1>");
}
}
catch(Exception e)
{
e.printStackTrace();
}
}
}
```

Web.xml

```
<servlet>
    <servlet-name>age form</servlet-name>
    <servlet-class>checkage</servlet-class>
</servlet>
<servlet-mapping>
    <servlet-name>age form</servlet-name>
    <url-pattern>/checkage</url-pattern>
</servlet-mapping>
```

Output Screens:



A screenshot of a web browser window. The address bar shows the URL `http://localhost:9090/weblab/access.html`. The page contains a form with two input fields: "NAME*" containing "abc" and "AGE*" containing "12". Below the form is a "Submit" button.



A screenshot of a web browser window. The address bar shows the URL `http://localhost:9090/wtlab/access.html`. The page content is a form with two text input fields. The first field is labeled "NAME*" and contains the value "abc". The second field is labeled "AGE*" and contains the value "21". Below the form is a blue "Submit" button.



Jsp Code:

form.jsp(7).html

```
<html>
<head><title>age form</title></head>
<body>
<form action="ageres.jsp" method="post">
NAME*<input type="text" name="name" required><br><br>
AGE*<input type="text" name="age" required><br><br>
<br><br>
<input type="submit" value="Submit">
</form>
</body>
</html>
```

ageres.jsp

```
<html>
<head><title>jsp form</title></head>
```

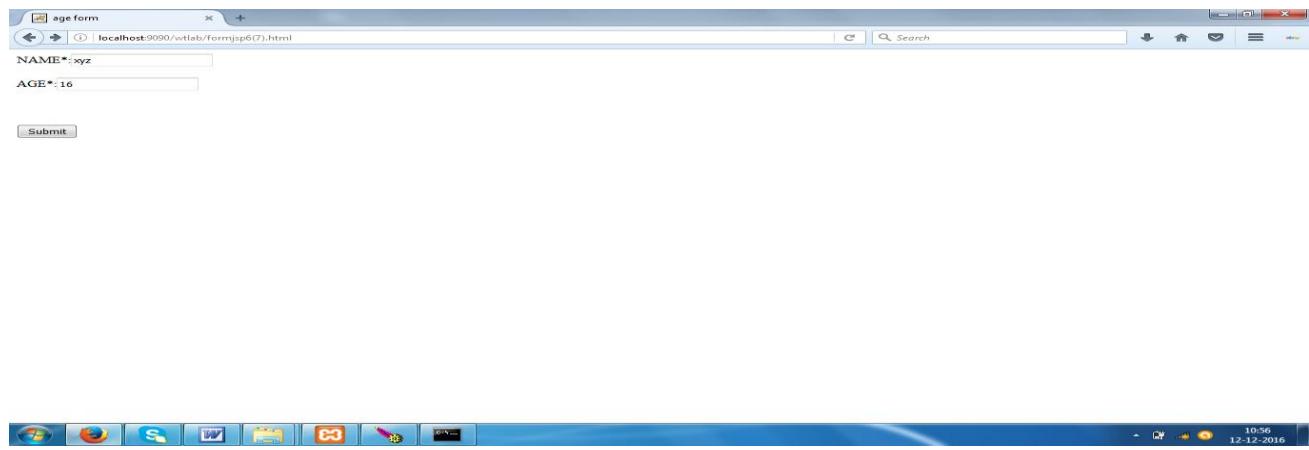
```

<body>
    <H2>
        <CENTER>
            <%
                String n1 = request.getParameter("name");
                Integer n2 = Integer.parseInt(request.getParameter("age"));

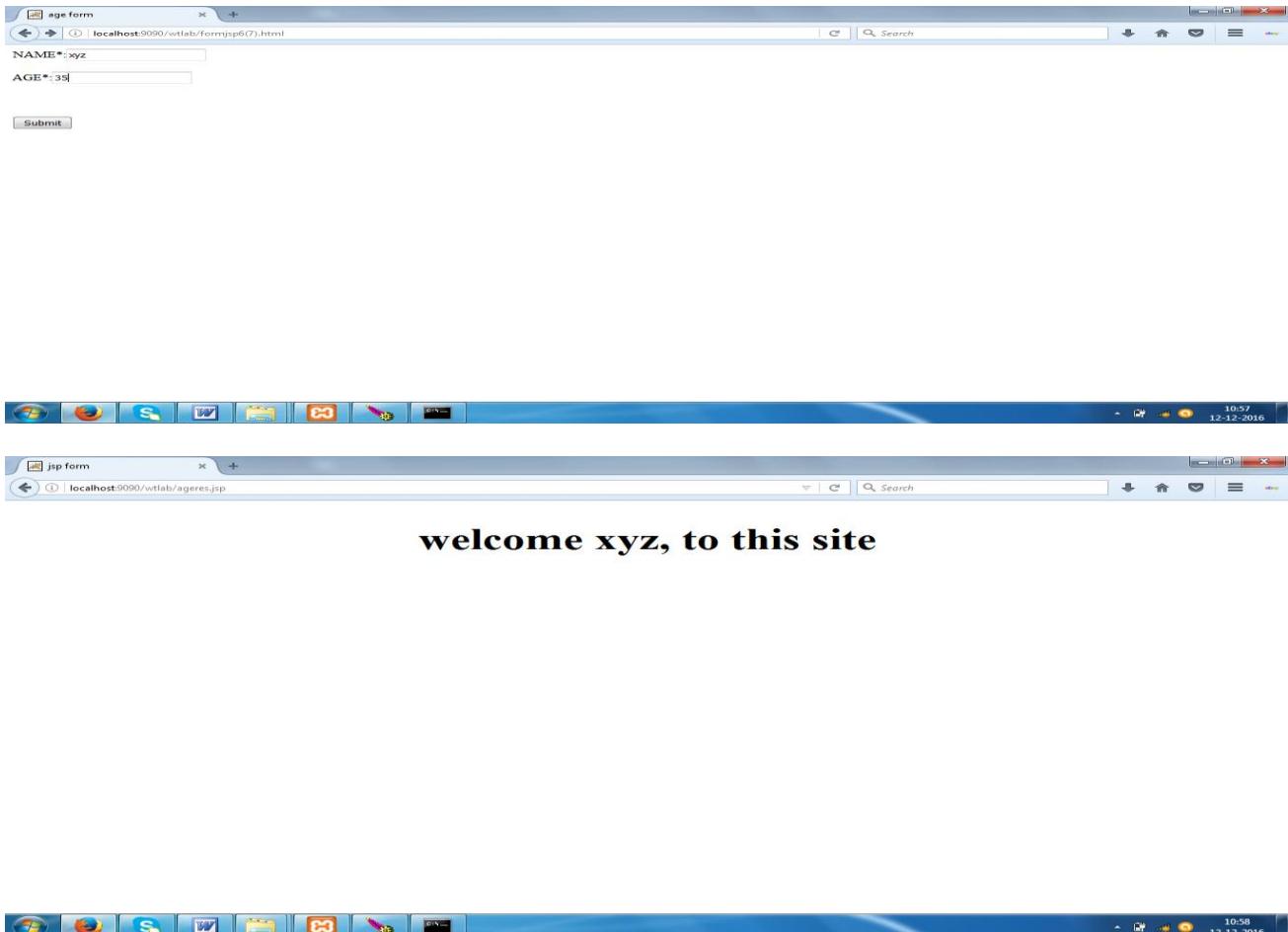
                if(n2<18)
                {
                    out.println("<h1>Hello "+n1+", you are not authorized to visit this site</h1>");
                }
            else
                out.println("<h1>welcome "+n1+", to this site</h1>");
            %>
        </CENTER>
    </H2>
</body>
</html>

```

Output Screens:



Hello xyz, you are not authorized to visit this site



6 viii) A Web application for implementation:

The user is first served a login page which takes user's name and password. After submitting the details the server checks these values against the data from a database and takes the following decisions.

if name and password matches, serves a welcome page with user's full name.

if name matches and password doesn't match, then serves "password mismatch" page

if name is not found in the database, serves a registration page, where user's full name is asked and on submitting the full name, it stores the login name, password and full name in the database(hint: use session for storing the submitted login name and password)

Sql:

Database Name: test

Table name: users

Fields(3): login, password, fullname

PHP Code:**login6(8).html**

```
<html>
<head>
<title>login6(8)</title>
</head>
<body>
<center>
<h1>Login Page<h1><br><br>
<form action="login6(8).php" method="post">
<table cellspacing='5' align='center'>
<tr><td>User name:</td><td><input type='text' name='uname' /></td></tr>
<tr><td>Password:</td><td><input type='password' name='pass' /></td></tr>
<tr><td></td><td><input type='submit' name='login' value='LOGIN' /></td></tr>
</table>
</form>
</center>
</body>
</html>
```

login6(8).php

```
<?php
$name=$_POST['uname'];
$pwd=$_POST['pass'];
$dbc=mysql_connect("localhost","root","");
mysql_select_db("test");
$query=mysql_query("SELECT * from users where login='$name'");
$numrows=mysql_num_rows($query);
if($numrows!=0)
{
while($row=mysql_fetch_assoc($query))
{
$dbuser=$row['login'];
$dbpwd=$row['password'];
$dbfull=$row['fullname'];
}
if($name==$dbuser&&$pwd==$dbpwd)
{
echo "<h1>WELCOME $dbfull! YOU ARE SUCCESSFULLY LOGGED IN...</h1>";
}
else
{
die("Password Mismatch");
}
}
```

```

else
{
echo "User doesn't exist.."."

```

reg6(8).html

```

<html>
<head>
<title>REGISTRATION</title>
</head>
<body>
<center><h1>REGISTRATION PAGE</h1><br><br>
<form action="reg68.php" method="post">
Login Name: <input type="text" name='uname'/'><br/><br/>
Password: <input type="password" name='pass'/'><br/><br/>
Full Name: <input type="text" name='fname'/'><br/>
<input type="submit" name="register" value="REGISTER"/>
</form>
</center>
</body>
</html>

```

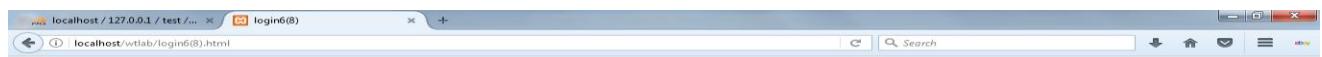
reg68.php

```

<?php
$uname=$_POST['uname'];
$pwd=$_POST['pass'];
$fname=$_POST['fname'];
$dbc=mysql_connect("localhost","root","");
mysql_select_db("test");
$write=mysql_query("insert into users values('$uname','$pwd','$fname')");
if(isset($write))
{
echo "You are registered successfully!! <a href='login6(8).html'>click here to login</a>";
}
?>

```

Output Screens:



Login Page

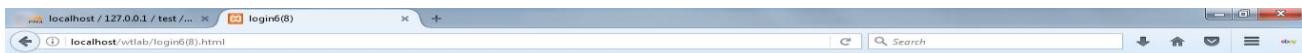
User name:
Password:



REGISTRATION PAGE

Login Name:
Password:
Full Name:





Login Page



Servlet Code:**login6.html**

```
<html>
<head>
<title>login page</title>
<body bgcolor="pink">
<form name="f1" method="get" action="http://localhost:8080/wtlab/login6">
username: <input type="text" name="uname"><br>
password: <input type="password" name="pwd">
<br><br>
<input type="submit" value="login">
<input type="reset">
</form>
</body>
</html>
```

login6.java

```
import javax.servlet.http.*;
import javax.servlet.*;
import java.sql.*;
import java.io.*;
public class login6 extends HttpServlet
{
public void doGet(HttpServletRequest request,HttpServletResponse response) throws
ServletException,IOException
{
String u,p,un,pw;
HttpSession session=request.getSession();
u=request.getParameter("uname");
p=request.getParameter("pwd");
response.setContentType("text/html");
PrintWriter out=response.getWriter();
try
{
Class.forName("com.mysql.jdbc.Driver").newInstance();
Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/test","root","root123");
Statement st=con.createStatement();
ResultSet rs=st.executeQuery("select * from users");
int f=0;
while(rs.next())
{
un=rs.getString(1);
pw=rs.getString(2);
if(u.equals(un)&&p.equals(pw))
{
```

```
session.setAttribute("user",u);
response.sendRedirect("http://localhost:8080/wtlab/welcome6");
}
else if(u.equals(un)&&(!p.equals(pw)))
{
f=1;break;
}
else
f=0;
}
if(f==1)
out.println("<h1>password mismatch</h1>");
if(f==0)
{
response.sendRedirect("http://localhost:8080/wtlab/reg6.html");
}
con.close();
}
catch(Exception e)
{
e.printStackTrace();
}
}
```

welcome6.java

```
import javax.servlet.http.*;
import javax.servlet.*;
import java.sql.*;
import java.io.*;
public class welcome6 extends HttpServlet
{
public void doGet(HttpServletRequest request,HttpServletResponse response)throws
ServletException,IOException
{
PrintWriter out=response.getWriter();
HttpSession session=request.getSession(true);
response.setContentType("text/html");
String u=(String)session.getAttribute("user");
try
{
Class.forName("com.mysql.jdbc.Driver").newInstance();
Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/test","root","root123");
Statement st=con.createStatement();
ResultSet rs=st.executeQuery("select * from users where login='"+u+"'");
if(rs.next())
out.println("<h1>Welcome "+rs.getString(3));
```

```
else
out.println("<h1>No user");
}
catch(Exception e)
{
e.printStackTrace();
}
}
```

reg6.html

```
<html>
<head>
<title>registration page</title>
<body>
<form method="get" action="http://localhost:8080/wtlab/reg6">
Enter username: <input type="text" name="u"><br>
Enter password: <input type="password" name="p">
Enter Full Name: <input type="text" name="full">
<br><br>
<input type="submit" value="Register Me">
</form>
</body>
</html>
```

reg6.java

```
import javax.servlet.http.*;
import javax.servlet.*;
import java.sql.*;
import java.io.*;
public class reg6 extends HttpServlet
{
public void doGet(HttpServletRequest request,HttpServletResponse response) throws
ServletException,IOException
{
String u,p,un,pw,fn;
u=request.getParameter("u");
p=request.getParameter("p");
fn=request.getParameter("full");
response.setContentType("text/html");
PrintWriter out=response.getWriter();
try
{
Class.forName("com.mysql.jdbc.Driver").newInstance();
Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/test", "root", "root123");
Statement st=con.createStatement();
```

```

int x=st.executeUpdate("insert into users values('"+u+"','"+p+"','"+fn+"')");
if(x>0)
{
out.println("<h1>Congratulations "+fn+"!!!");
out.println("<h1>Successfully Registered");
out.println("<h2><a href=login6.html>click here to login</a></h2>");
}
con.close();
}
catch(Exception e)
{
e.printStackTrace();
}
}
}
}
}

```

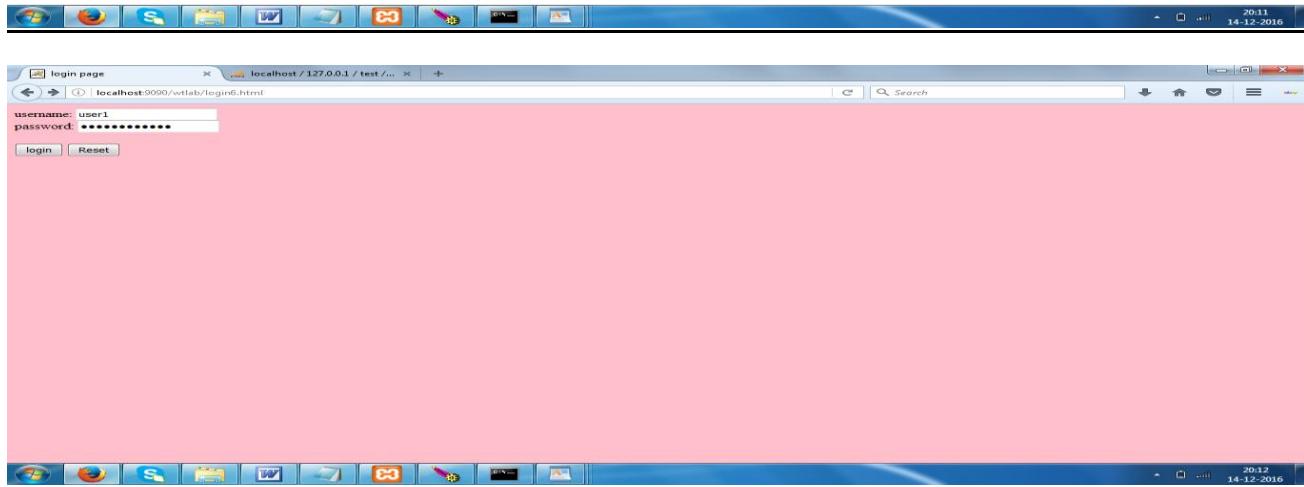
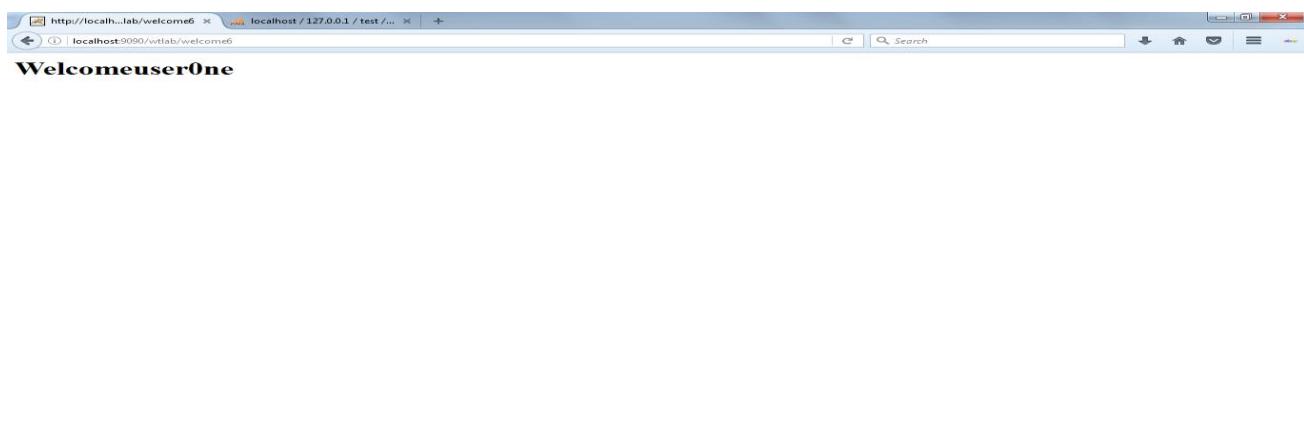
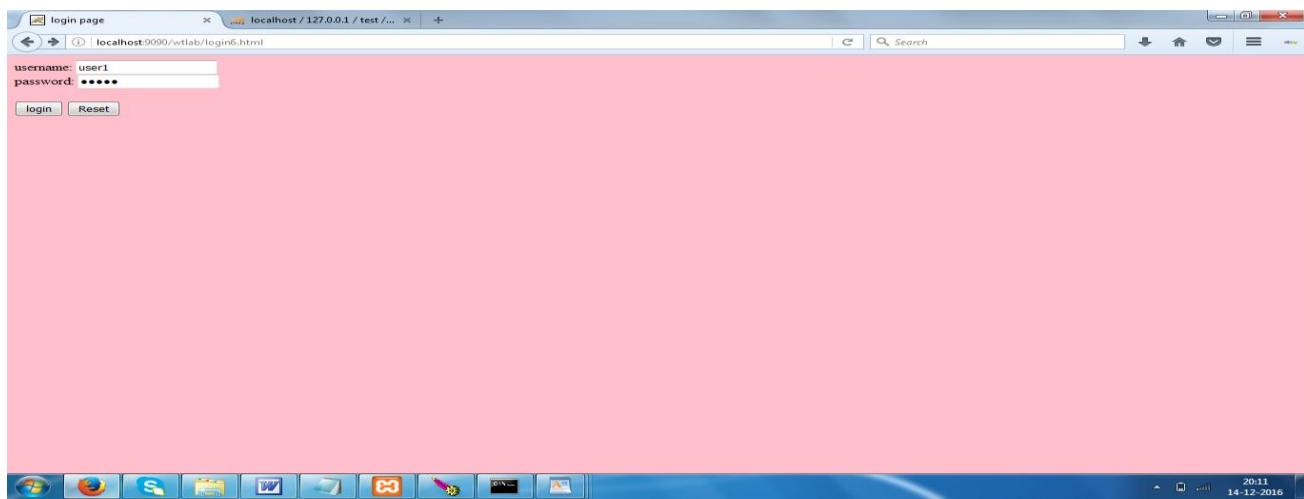
Web.xml

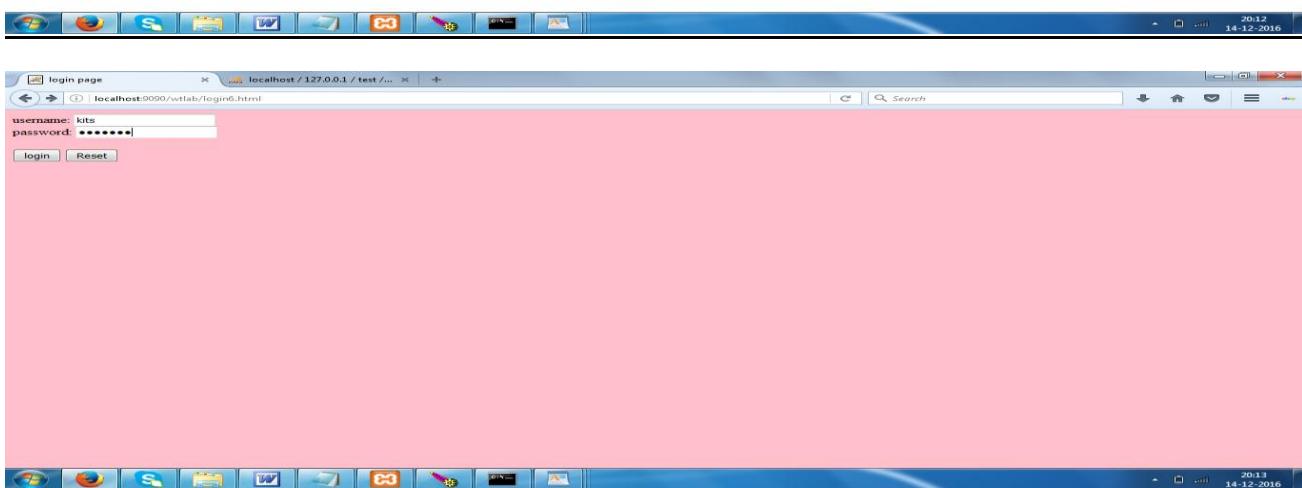
```

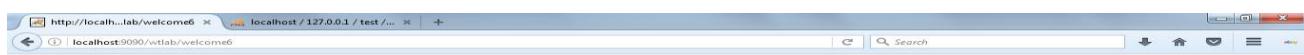
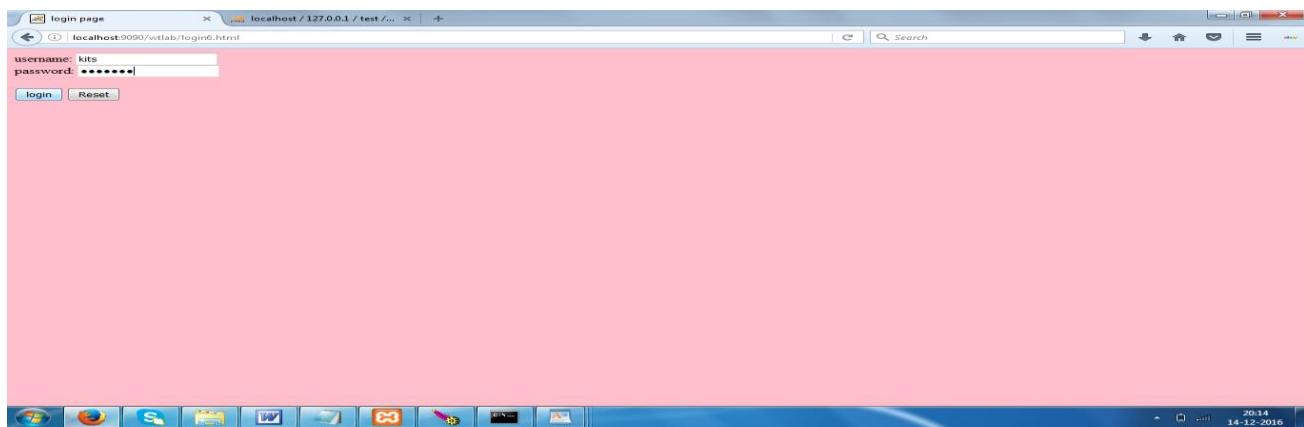
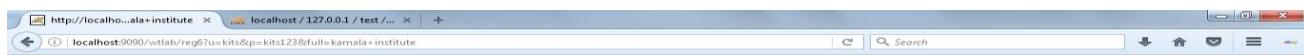
<servlet>
    <servlet-name>login6</servlet-name>
    <servlet-class>login6</servlet-class>
</servlet>
<servlet-mapping>
    <servlet-name>login6</servlet-name>
    <url-pattern>/login6</url-pattern>
</servlet-mapping>
<servlet>
    <servlet-name>welcome6</servlet-name>
    <servlet-class>welcome6</servlet-class>
</servlet>
<servlet-mapping>
    <servlet-name>welcome6</servlet-name>
    <url-pattern>/welcome6</url-pattern>
</servlet-mapping>
<servlet>
    <servlet-name>reg6</servlet-name>
    <servlet-class>reg6</servlet-class>
</servlet>
<servlet-mapping>
    <servlet-name>reg6</servlet-name>
    <url-pattern>/reg6</url-pattern>
</servlet-mapping>

```

Output Screens:







Jsp Code:**login6j.html**

```
<html>
<head>
<title>login page</title>
</head>
<body bgcolor="pink">
<form name="f1" method="get" action="login6j.jsp">
<center><br><b><h1>LOGIN PAGE</h1></b><br><br>
username: <input type="text" name="uname"><br>
password: <input type="password" name="pwd">
<br><br>
<input type="submit" value="login">
<input type="reset">
</center>
</form>
</body>
</html>
```

login6j.jsp

```
<%@page language="java" import="java.sql.*"%>
<%
String u,p,un,pw;
u=request.getParameter("uname");
p=request.getParameter("pwd");
Class.forName("com.mysql.jdbc.Driver").newInstance();
Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/test","root","");
Statement st=con.createStatement();
ResultSet rs=st.executeQuery("select * from users");
int f=0;
while(rs.next())
{
un=rs.getString(1);
pw=rs.getString(2);
if(u.equals(un)&&p.equals(pw))
{
session.setAttribute("user",u);
response.sendRedirect("http://localhost:9090/wtlab/welcome6j.jsp");
}
else if(u.equals(un)&&(!p.equals(pw)))
{
f=1;break;
}
else
f=0;
```

```

}
if(f==1)
out.println("<h1>password mismatch</h1>");
if(f==0)
{
out.println("<h1>Login Unsuccessful...User does not exist...</h1>");
%>
<h2><a href="reg6j.html">click here to Register</a></h2>
<%
}
con.close();
%>

```

welcome6j.jsp

```

<%@page language="java" import="java.sql.*"%>
<%
try
{
String u=(String)session.getAttribute("user");
Class.forName("com.mysql.jdbc.Driver").newInstance();
Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/test","root","");
Statement st=con.createStatement();
ResultSet rs=st.executeQuery("select * from users where login='"+u+"'");
if(rs.next())
out.println("<h1>Welcome "+rs.getString(3));
else
out.println("<h1>No user");
}
catch(Exception e)
{
out.println("<h1>Error:"+e);
}
%>

```

reg6j.html

```

<html>
<head>
<title>registration page</title>
<body>
<form method="get" action="http://localhost:9090/wtlab/reg6j.jsp">
Enter username: <input type="text" name="u"><br>
Enter password: <input type="password" name="p"><br>
Enter Full Name: <input type="text" name="full">
<br><br>
<input type="submit" value="Register Me">
</form>

```

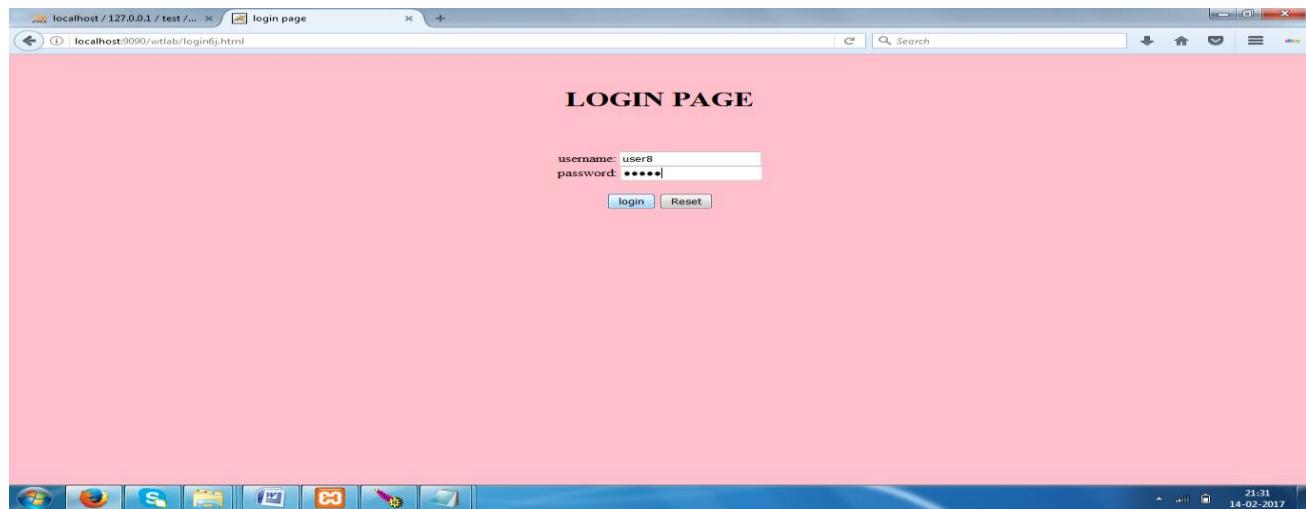
```

</body>
</html>
reg6j.jsp

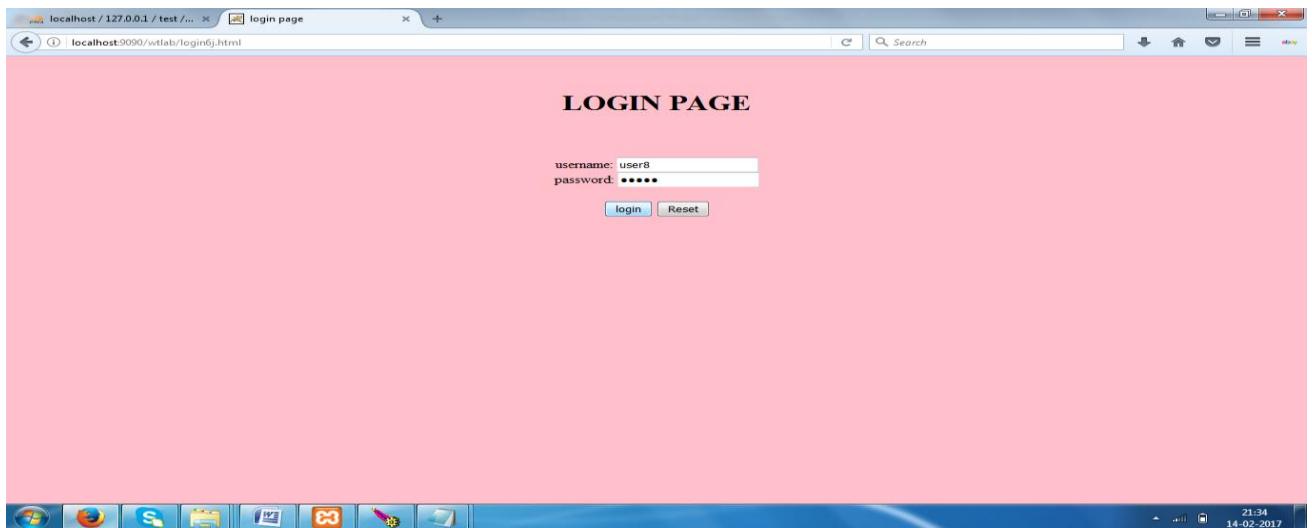
<%@page language="java" import="java.sql.*"%>
<%
String u,p,un,pw,fn;
u=request.getParameter("u");
p=request.getParameter("p");
fn=request.getParameter("full");
try
{
Class.forName("com.mysql.jdbc.Driver").newInstance();
Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/test","root","");
Statement st=con.createStatement();
int x=st.executeUpdate("insert into users values('"+u+"','"+p+"','"+fn+"')");
if(x>0)
{
out.println("<h1>Congratulations "+fn+"!!!!");
out.println("<h1>Successfully Registered");
%>
<h2><a href="login6j.html">click here to login</a></h2>
<%
}
con.close();
}
catch(Exception e)
{
out.println("<h1>Error:"+e);
}
%>

```

Output Screens:







21:35
14-02-2017

	login	password	fullname
Edit	kits	kits123	kamala institute
Edit	ss	ss	sss
Edit	user1	user1	userOne
Edit	user2	user2	userTwo
Edit	user3	user3	userThree
Edit	user4	user4	userFour
Edit	user6	user6	userSix
Edit	user8	user8	usereight

6 ix) A web application that lists all cookies stored in the browser on clicking "list cookies" button. Add cookies if necessary.

PHP Code:

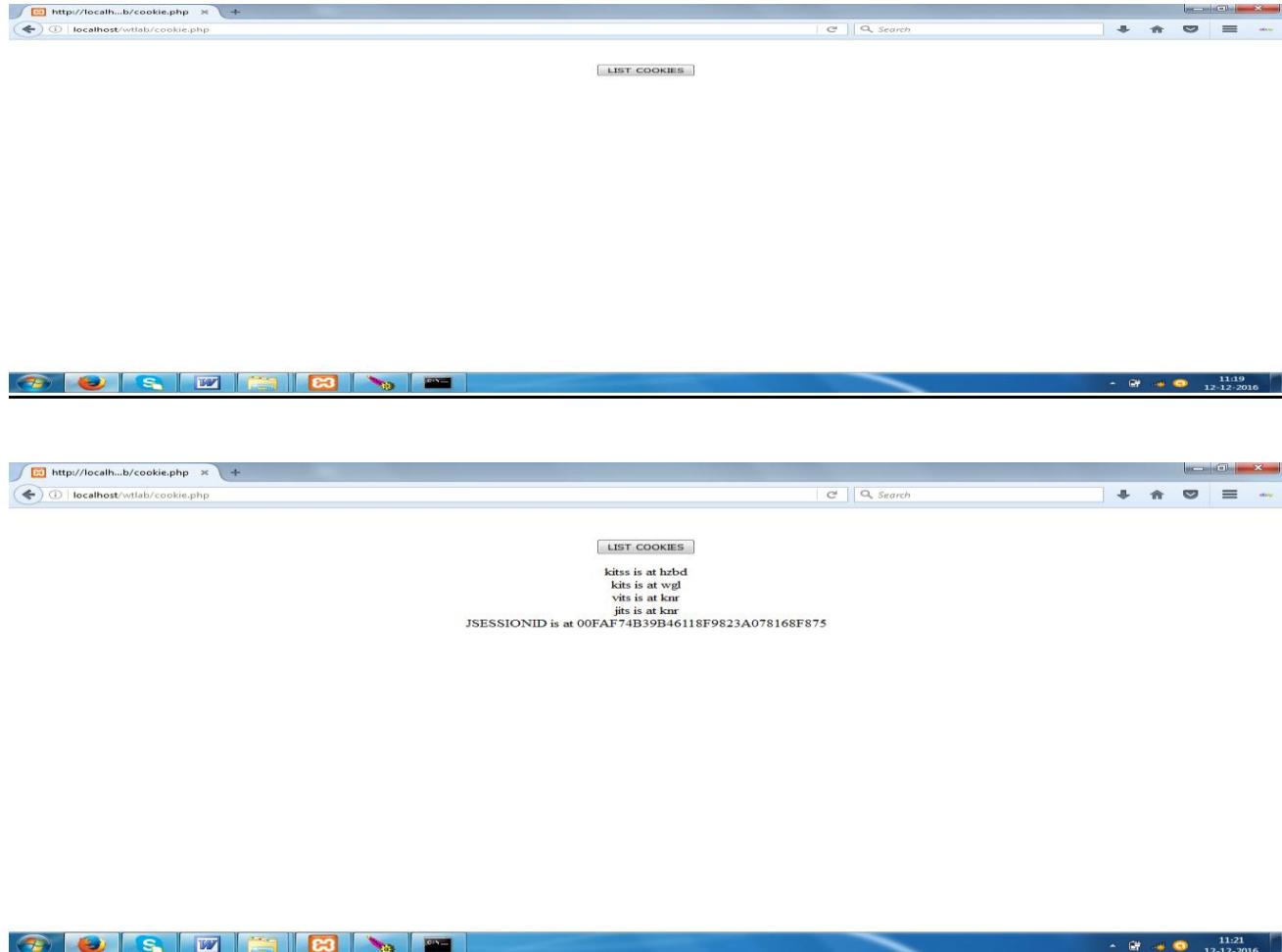
cookieset.php

```
<?php
$exp=time()+86400;
setcookie("kitss","hzbd",$exp);
setcookie("kits","wgl",$exp);
setcookie("vits","knr",$exp);
setcookie("jits","knr",$exp);
echo "cookies set";
?>
```



cookie.php

```
<html>
<body>
<center><br><br>
<form action="" method="POST">
<input type="submit" value="LIST COOKIES" name="list"/>
</form></center>
<?php
error_reporting(0);
if($_POST['list'])
{
foreach($_COOKIE as $key=>$val) {
echo "<center>".$key." is at ".$val."<br/></center>";
}
}
?>
</body>
</html>
```

Output Screens:**Servlet Code:****cookie1.html**

```
<html>
<body>
<form method="get" action="http://localhost:8080/wtlab/cookie2">
Enter your name : <input type="text" name="name1"><br>
<input type="submit" value="Add Cookie">
</form>
</body>
</html>
```

cookie2.java

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

```

import java.io.*;
public class cookie2 extends HttpServlet
{
public void doGet(HttpServletRequest req,HttpServletResponse res) throws ServletException,IOException
{
res.setContentType("text/html");
PrintWriter out = res.getWriter();
String name = req.getParameter("name1");
Cookie c1 = new Cookie("name2", name);
res.addCookie(c1);
c1.setMaxAge(50 * 50);
out.println("<form method=get action=http://localhost:8080/wtlab/cookie3>");
out.println("<input type=submit value>List_cookies></form>");
}
}

```

cookie3.java

```

import javax.servlet.http.*;
import javax.servlet.*;
import java.io.*;
public class cookie3 extends HttpServlet
{
public void doGet(HttpServletRequest req,HttpServletResponse res) throws ServletException,IOException
{
res.setContentType("text/html");
PrintWriter out = res.getWriter();
out.println("<title>List of Cookies</title>");
out.println("<h1>List of Cookies</h1>");
Cookie[] cookies = req.getCookies();
for(int i=0;i<cookies.length;i++)
{
out.println("<h2>" + cookies[i].getName() + " " + cookies[i].getValue() + "</h2><br>");
}
}
}

```

Web.xml

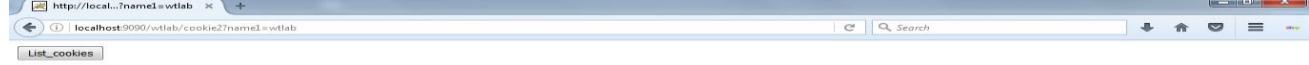
```

<servlet>
    <servlet-name>cookies</servlet-name>
    <servlet-class>cookie2</servlet-class>
</servlet>
<servlet-mapping>
    <servlet-name>cookies</servlet-name>
    <url-pattern>/cookie2</url-pattern>
</servlet-mapping>

```

```
<servlet>
    <servlet-name>cookies1</servlet-name>
    <servlet-class>cookie3</servlet-class>
</servlet>
<servlet-mapping>
    <servlet-name>cookies1</servlet-name>
    <url-pattern>/cookie3</url-pattern>
</servlet-mapping>
```

Output Screens:



```

List of Cookies
kits hzbd
kits wgl
vits knr
jits knr
name2 wtlab
JSESSIONID 00FAF74B39B46118F9823A078168F875

```



Jsp Code:

Cookieform.html

```

<html>
<body>
<form method="get" action="http://localhost:8080/wtlab/cookie2.jsp">
Enter your name : <input type="text" name="name1"><br>
<input type="submit" value="Add Cookie">
</form>
</body>
</html>

```

cookie2.jsp

```

<%
String name=request.getParameter("name1");
Cookie c1=new Cookie("name2",name);
response.addCookie(c1);
c1.setMaxAge(50*50);
%>
<form method="get" action="http://localhost:8080/wtlab/cookie3.jsp">
<input type="submit" value="List cookies">
</form>

```

cookie3.jsp

```

<html>
<head><title>List of Cookies</title> </head>
<h1>List of Cookies</h1>
<%
Cookie[] cookies=request.getCookies();

```

```
for(int i=0;i<cookies.length;i++)
{
out.println("<h2>" +cookies[i].getName() + " " +cookies[i].getValue() + "</h2><br>");
}
%>
</html>
```

Output Screens:



