**1. Write a JAVA Servlet Program to implement a dynamic HTML using Servlet (user name and Password should be accepted using HTML and displayed using a Servlet).**

**Servlet1.html**

<html>

<head>

<title>ServletAction</title>

</head>

<body>

<center><b> <h2>User details</h2>

<form method="post" action="http://localhost:8080/examples/servlets/servlet/servlet1">

<hr/>

<h3>Enter user name::</h3>

<input type="text" name="uname"/><br/><br/>

<h3>Enter Password::</h3>

<input type="password" name="uadd"/><br/><br/>

<input type="submit" value="Display"/>

<imput type="rest" value="Clear"/>

</form>

</body>

</html>

**Servlet1.java**

import java.lang.\*;

import java.io.\*;

import javax.servlet.\*;

import javax.servlet.http.\*;

public class servlet1 extends HttpServlet

{

public void dopost(HttpServletRequest req,HttpServletResponse res)throws

ServletException,IOException

{

PrintWriter out=res.getWriter();

String unam=req.getParameter("uname");

String uaa=req.getParameter("uadd");

out.println("<HTML><BODY>");

out.println("<center><b>");

out.println("<h1> USER INFORMATION</h1><hr/>");

out.println("User name:: "+unam+"<br>");

out.println("Password:: "+uaa+"<br>");

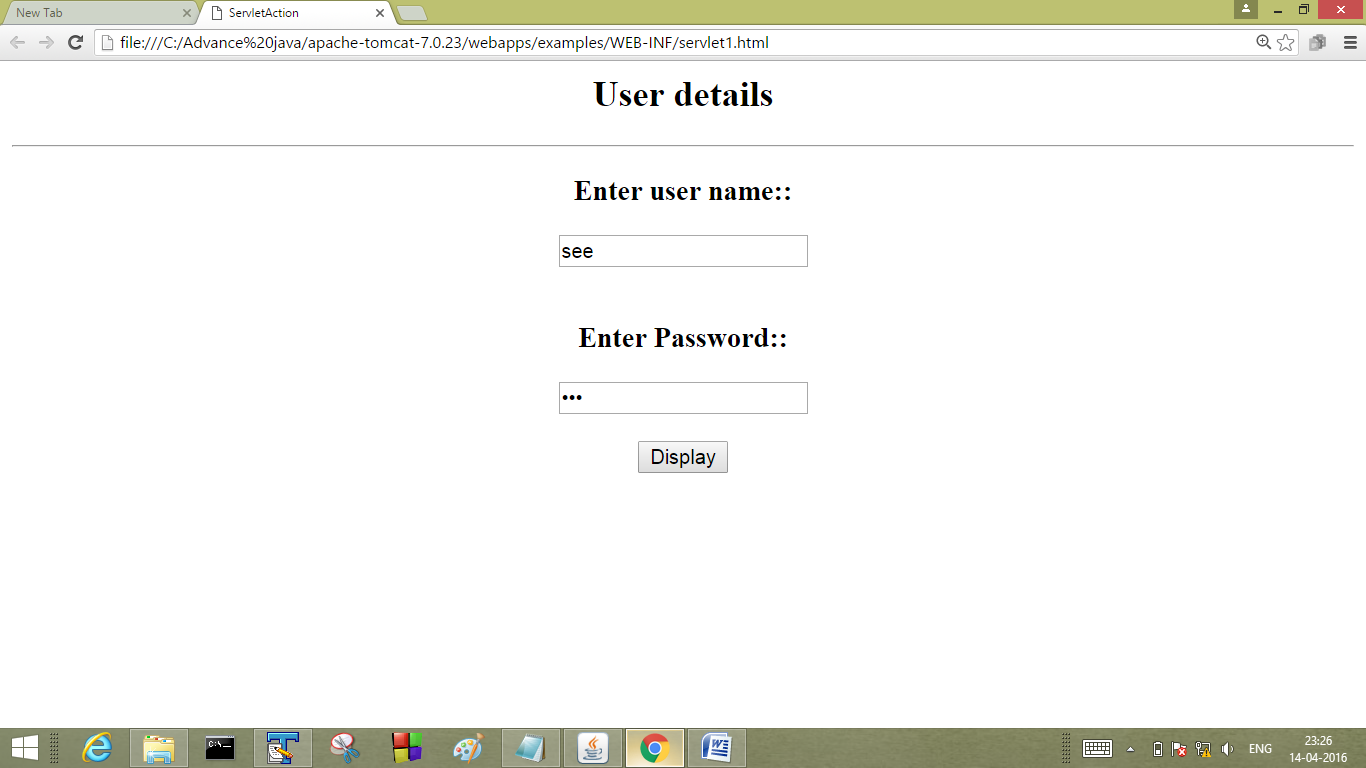
out.println("</b></center>");

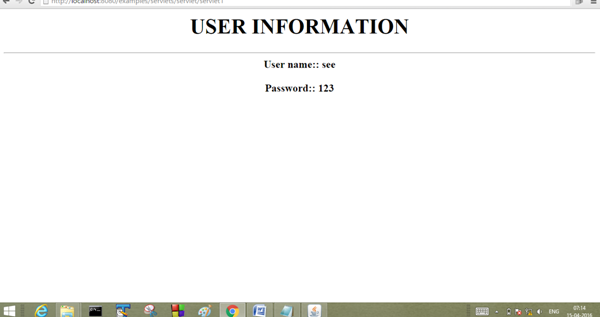
out.println("</BODY></HTML>");

}

}

**OUT PUT:**

****

****

**2. Write a JAVA Servlet Program to Auto Web Page Refresh (Consider a webpage which is displaying Date and time or stock market status. For all such type of pages, you would need to refresh your web page regularly; Java Servlet makes this job easy by providing refresh automatically after a given interval).**

import java.io.IOException;

import java.io.PrintWriter;

import java.util.Date;

import javax.servlet.ServletException;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

public class program2 extends javax.servlet.http.HttpServlet implements javax.servlet.Servlet {

private static final long serialVersionUID = 1L;

protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException

{

performTask(request, response);

}

protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException,IOException

{

performTask(request, response);

}

private void performTask(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException

{

response.setContentType("text/html");

response.addHeader("Refresh", "5");

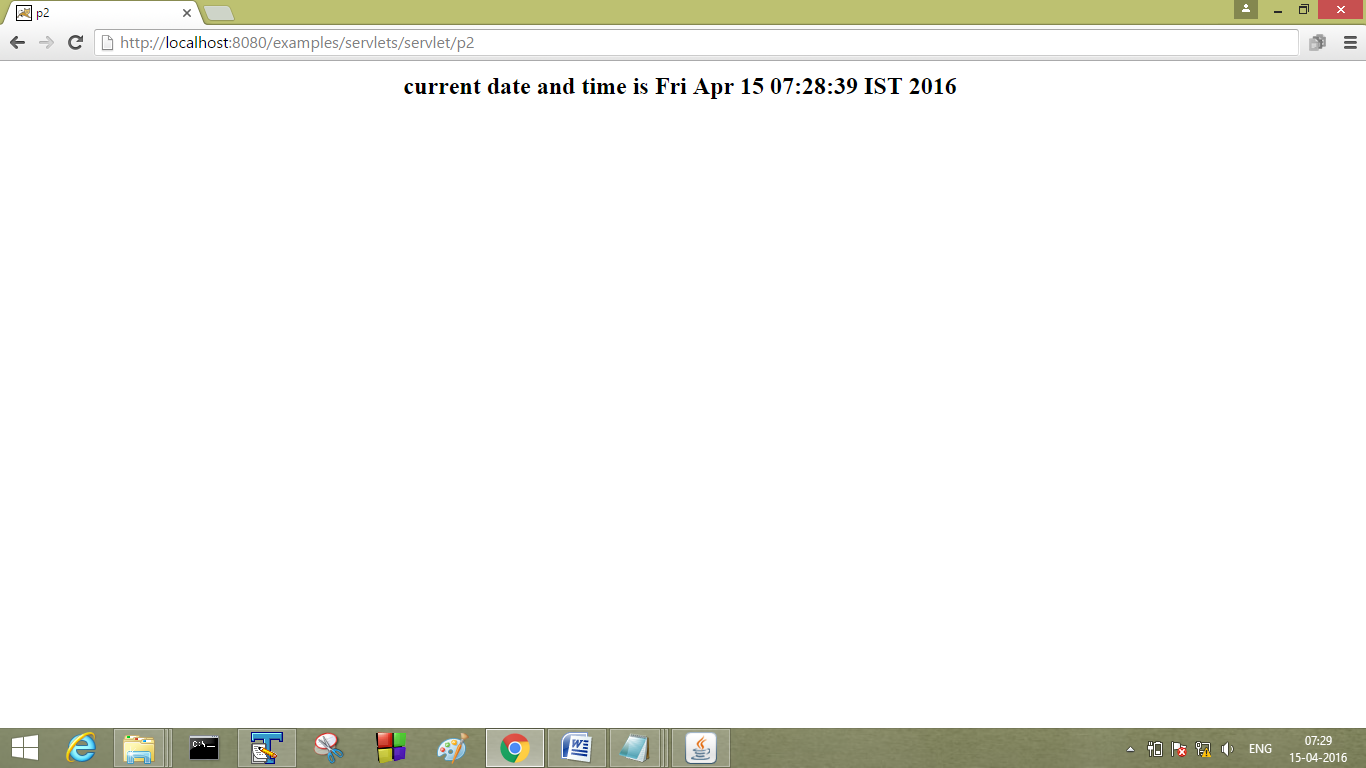
PrintWriter out = response.getWriter();

out.println("</br></br><center><b><font size=10>current Date and time is " +new Date()+"</center></b></font>");

}

}

**OUT PUT:**

****

**3. Write a JAVA Servlet Program to implement and demonstrate get() and Post methods(Using HTTP Servlet Class).**

**P3.html:**

<html>

<head>

<title>ServletAction</title>

</head>

<body>

<h2> User details</h2>

<form method="post" action="http://localhost:8080/examples/Servlet3">

<hr />

<h3> Enter user name::</h3>

<input type="text" name="uname" /><br /><br />

<h3>Enter Password::</h3>

<input type="password" name="uadd" /><br /><br />

<input type="submit" value="Display" />

<input type="reset" value="Clear" />

</form>

<form method="get" action="http://localhost:8080/examples/Servlet3">

<hr />

<h3> Enter user name::</h3>

<input type="text" name="uname" /><br /><br />

<h3>Enter Password::</h3>

<input type="password" name="uadd" /><br /><br />

<input type="submit" value="Display" />

<input type="reset" value="Clear" />

</form>

</body>

</html>

**P3.java:**

Import java.lang.\*;

import java.io.\*;

import javax.servlet.\*;

import javax.servlet.http.\*;

public class p3 extends HttpServlet

{

public void doPost(HttpServletRequest req,HttpServletResponse res) throws ServletException,IOException

{

PrintWriter out=res.getWriter();

String unam=req.getParameter("uname");

String uaa=req.getParameter("uadd");

out.println("<HTML><BODY>");

out.println("<h1> USER INFORMATION</h1><hr />");

out.println("User name:: "+unam+"<br>");

out.println("Password:: "+uaa+"<br>");

out.println("</BODY></HTML>");

}

public void doGet(HttpServletRequest req,HttpServletResponse res) throws

ServletException,IOException

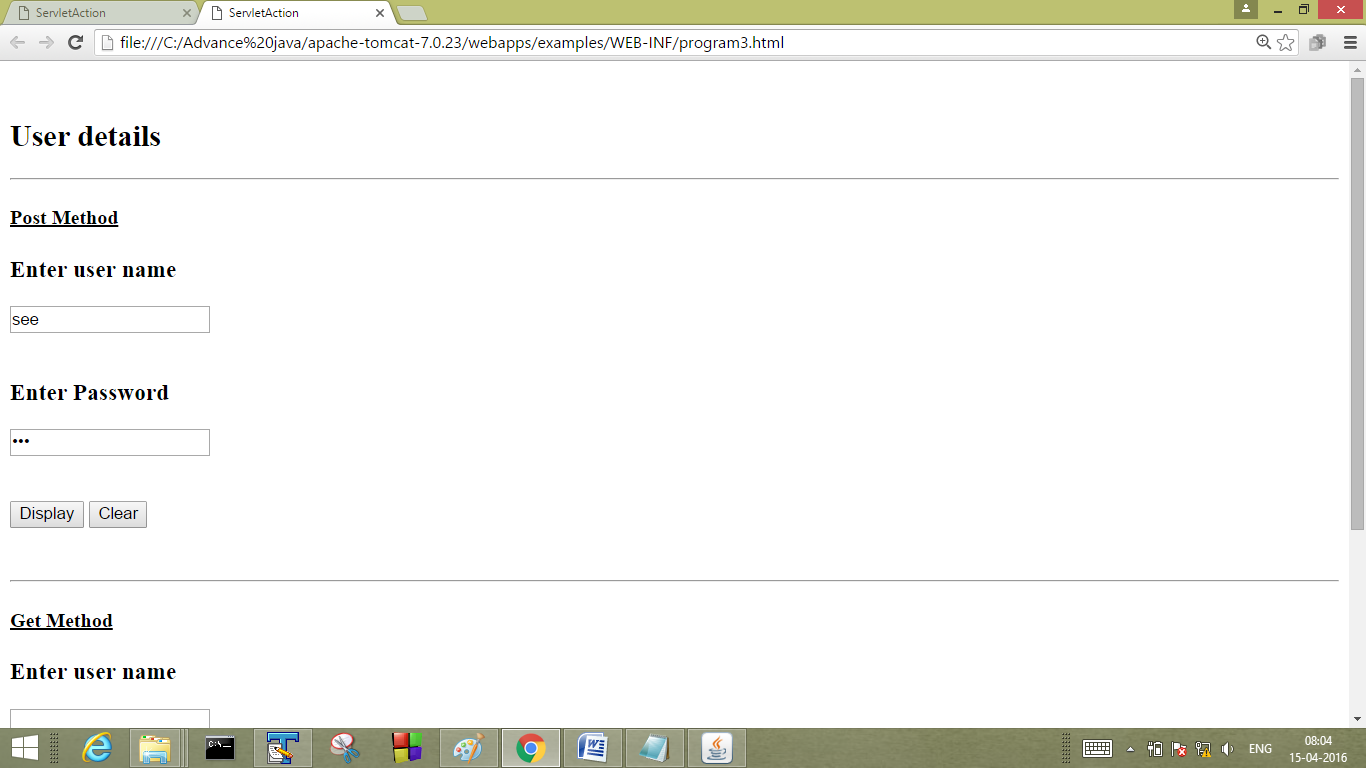
{

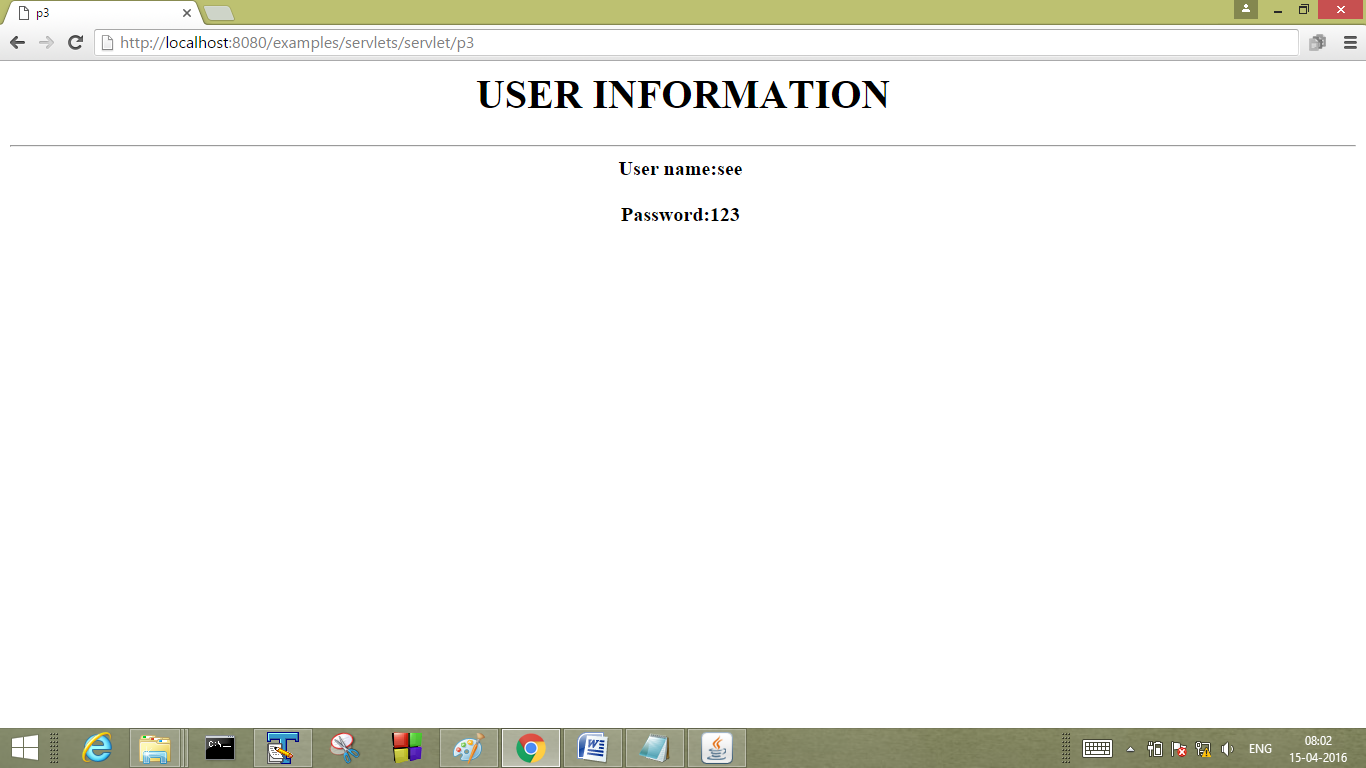
doPost(req,res);

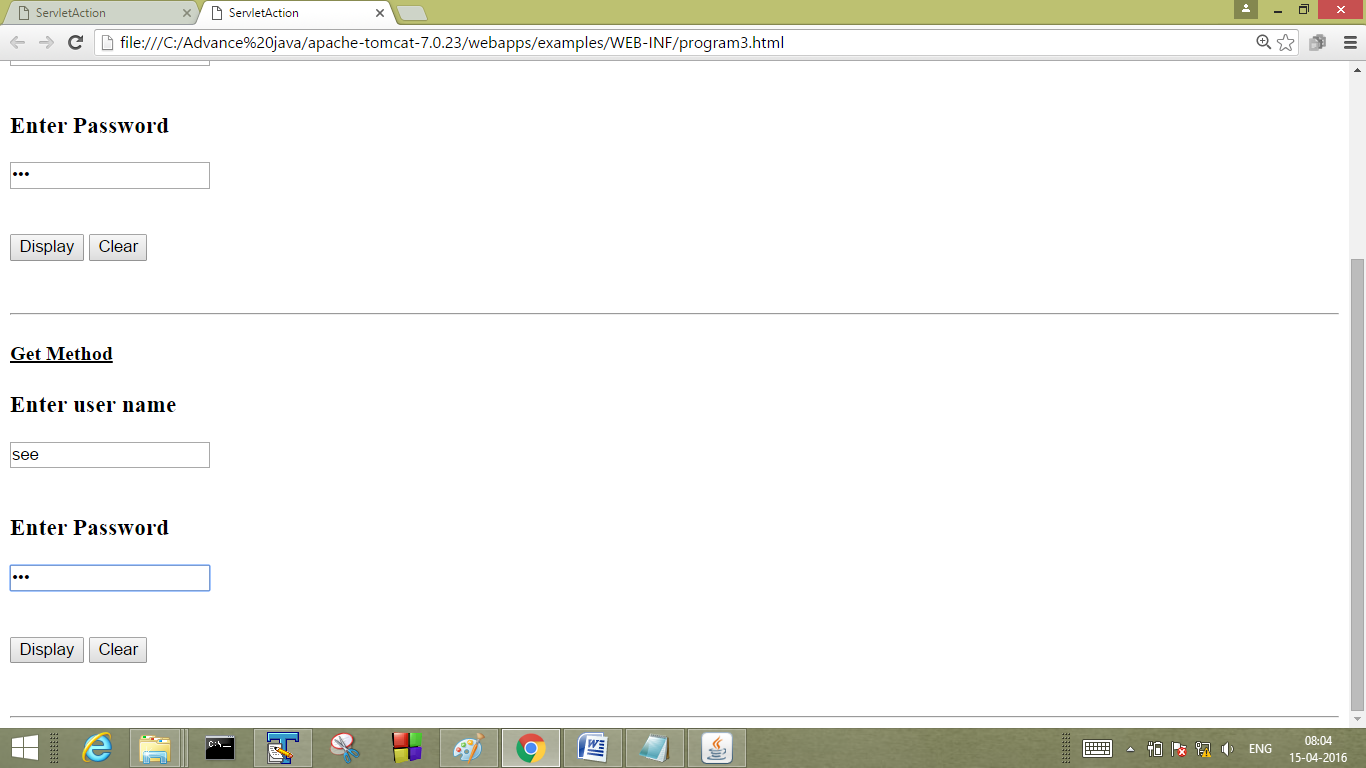
}

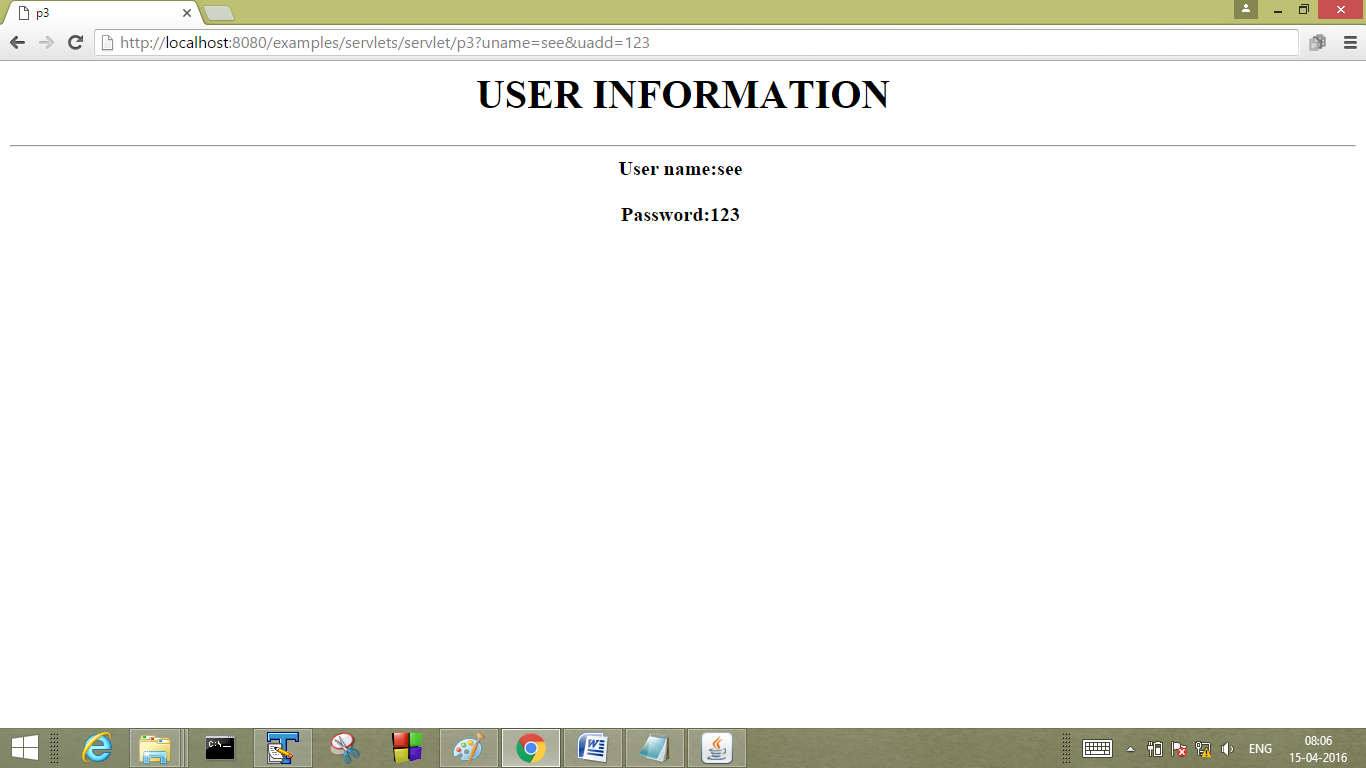
}

**OUTPUT:**

****

****

****

****

**4. Write a JAVA Servlet Program using cookies to remember user preferences.**

**P4.html:**

<html>

<body>

<form action="http://localhost:8080/examples/servlets/servlet/p4" method="GET">

First Name: <input type="text" name="first\_name"><br><br>

Last Name: <input type="text" name="last\_name" /><br>

<input type="submit" value="Submit" />

</form>

</body>

</html>

**P4.java:**

import java.io.\*;

import javax.servlet.\*;

import javax.servlet.http.\*;

public class p4 extends HttpServlet {

public void doGet(HttpServletRequest request,

HttpServletResponse response)

throws ServletException, IOException

{

Cookie firstName = new Cookie("first\_name",

request.getParameter("first\_name"));

Cookie lastName = new Cookie("last\_name",

request.getParameter("last\_name"));

firstName.setMaxAge(60\*60\*24);

lastName.setMaxAge(60\*60\*24);

.

response.addCookie( firstName );

response.addCookie( lastName );

response.setContentType("text/html");

PrintWriter out = response.getWriter();

String title = "Setting Cookies Example";

String docType =

"<!doctype html public \"-//w3c//dtd html 4.0 " +

"transitional//en\">\n";

out.println(docType +

"<html>\n" +

"<head><title>" + title + "</title></head>\n" +

"<body>\n" +

"<h1 align=\"center\">" + title + "</h1>\n" +

" <b>First Name</b>: "

+ request.getParameter("first\_name") + "\n" +

" <b>Last Name</b>: "

+ request.getParameter("last\_name") + "\n" +

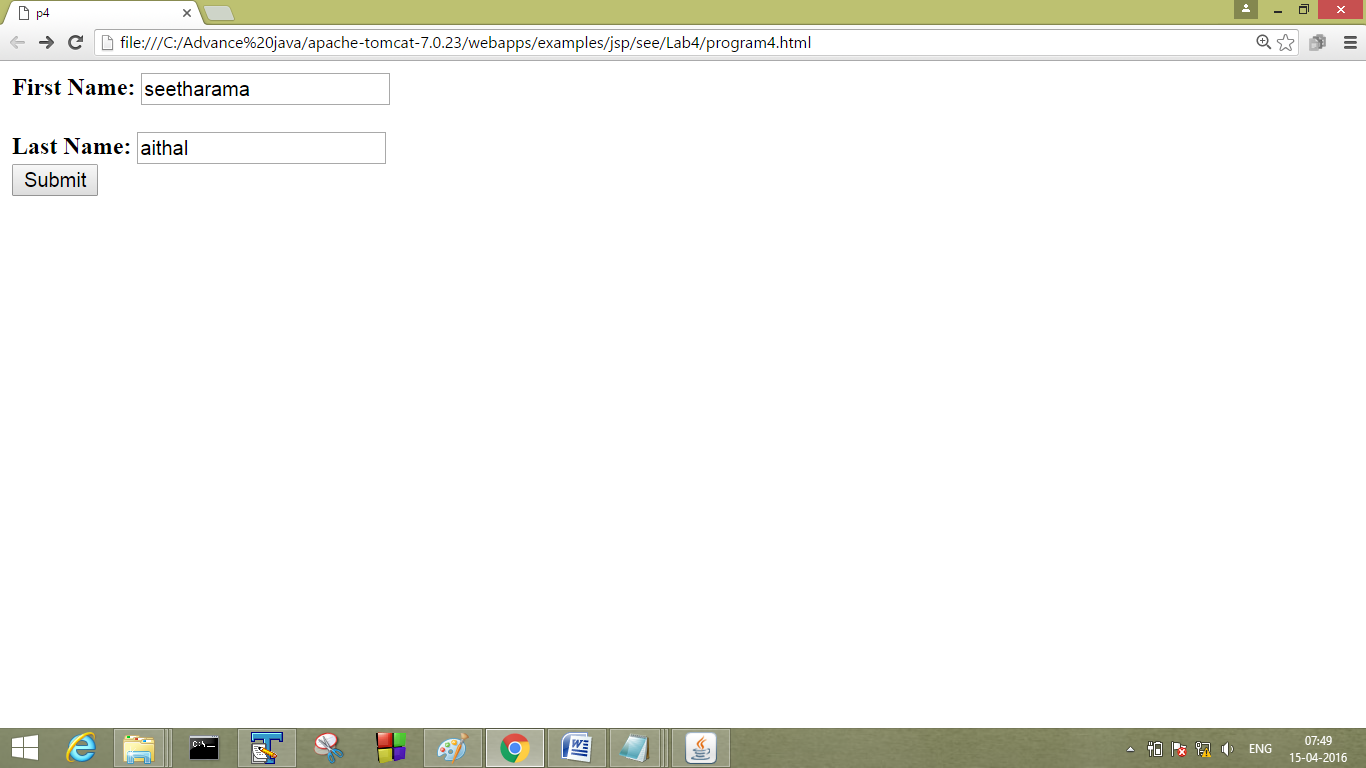
"\n" +

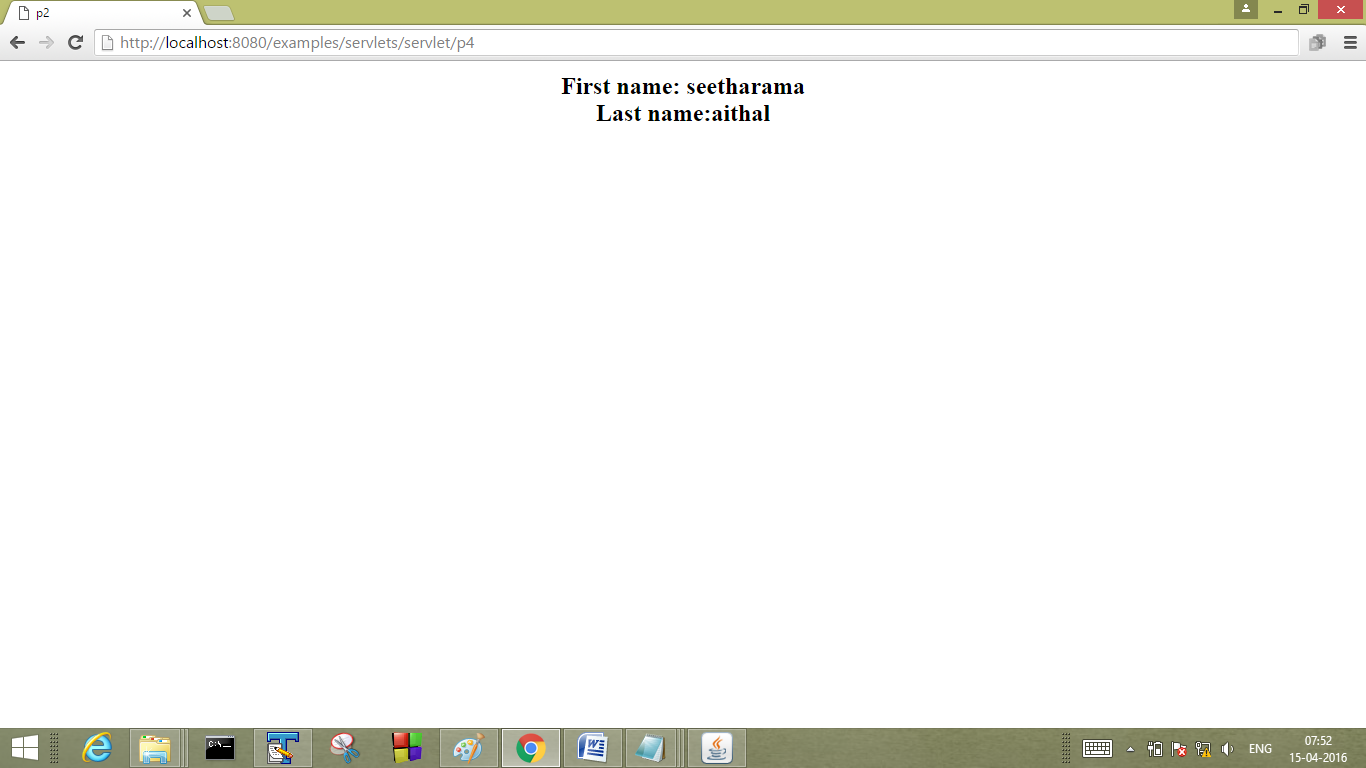
"</body></html>");

}

}

**OUT PUT:**

****

****

**5. a. Write a JAVA JSP Program to implement verification of a particular user login and display a Welcome page.**

**Login.jsp:**

<html>

<head>

<title>JSP Page</title>

</head>

<body>

<center><h1>Login Page</h1></center>

<hr>

<center>

<h2>Signup Details</h2>

<form action="LoginCheck.jsp" method="post">

<br/><b>Username: <input type="text" name="username"></b><br><br>

<br/><b>Password: <input type="password" name="password"></b><br><br>

<br/><input type="submit" value="Submit">

</form>

</center>

</body>

</html>

**Logincheck.jsp:**

<html>

<head>

<title>JSP Page</title>

</head>

<body>

<%

String username=request.getParameter("username");

String password=request.getParameter("password");

if((username.equals("seetharama") && password.equals("12345")))

{

session.setAttribute("username",username);

response.sendRedirect("Home.jsp");

}

else

response.sendRedirect("Error.jsp");

%>

</body>

</html>

**error.jsp:**

<html>

<head>

<title>JSP Page</title>

</head>

<body>

<center> <h2>Username or Password is wrong, Please try again...</h2></center>

<b><center> <a href="Login.jsp">Login again</a></center></b>

</body>

</html>

**Home.jsp:**

<html>

<head>

<title>JSP Page</title>

</head>

<body>

<br/><br/><br/><br/><br/>

<center>

<h2>

<%

String a=session.getAttribute("username").toString();

out.println("Hello "+a+ " Welcome to the Home Page");

%>

</h2>

<br/>

<br/>

<br/><br/><br/><br/><br/>

<a href="Logout.jsp">Logout</a>

</center>

</body>

</html>

**Logout.jsp:**

<html>

<head>

<title>JSP Page</title>

</head>

<body>

<%

session.removeAttribute("username");

session.removeAttribute("password");

session.invalidate();

%>

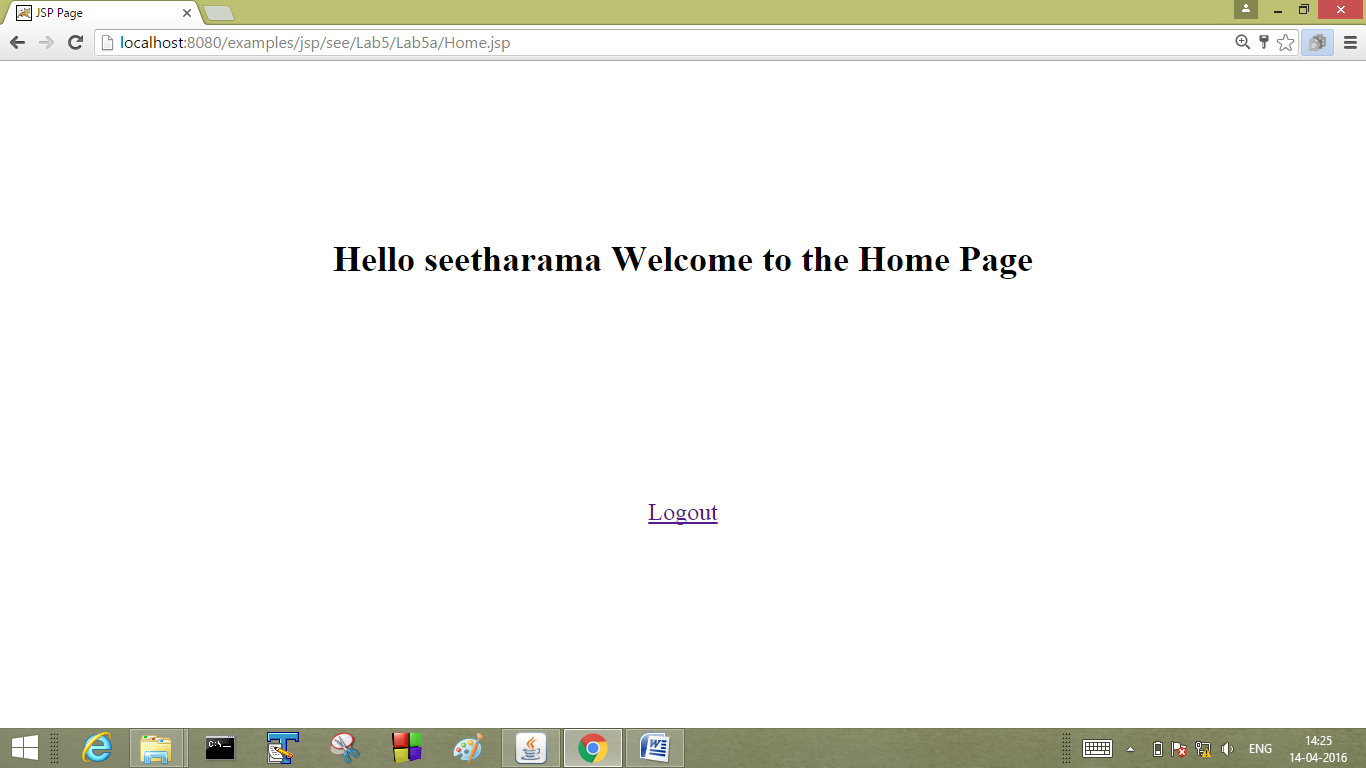
<center><h2>You have successfully logged out</h2></center>

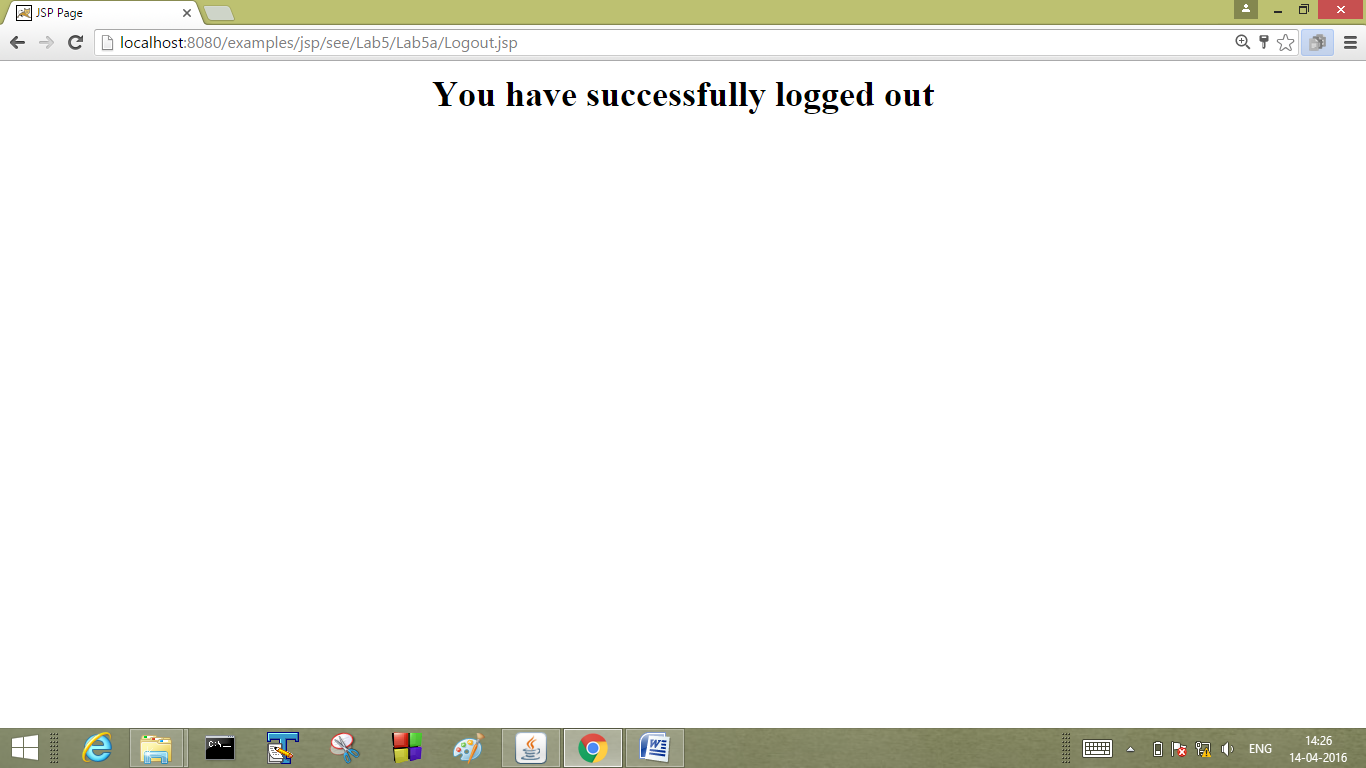
</body>

</html>

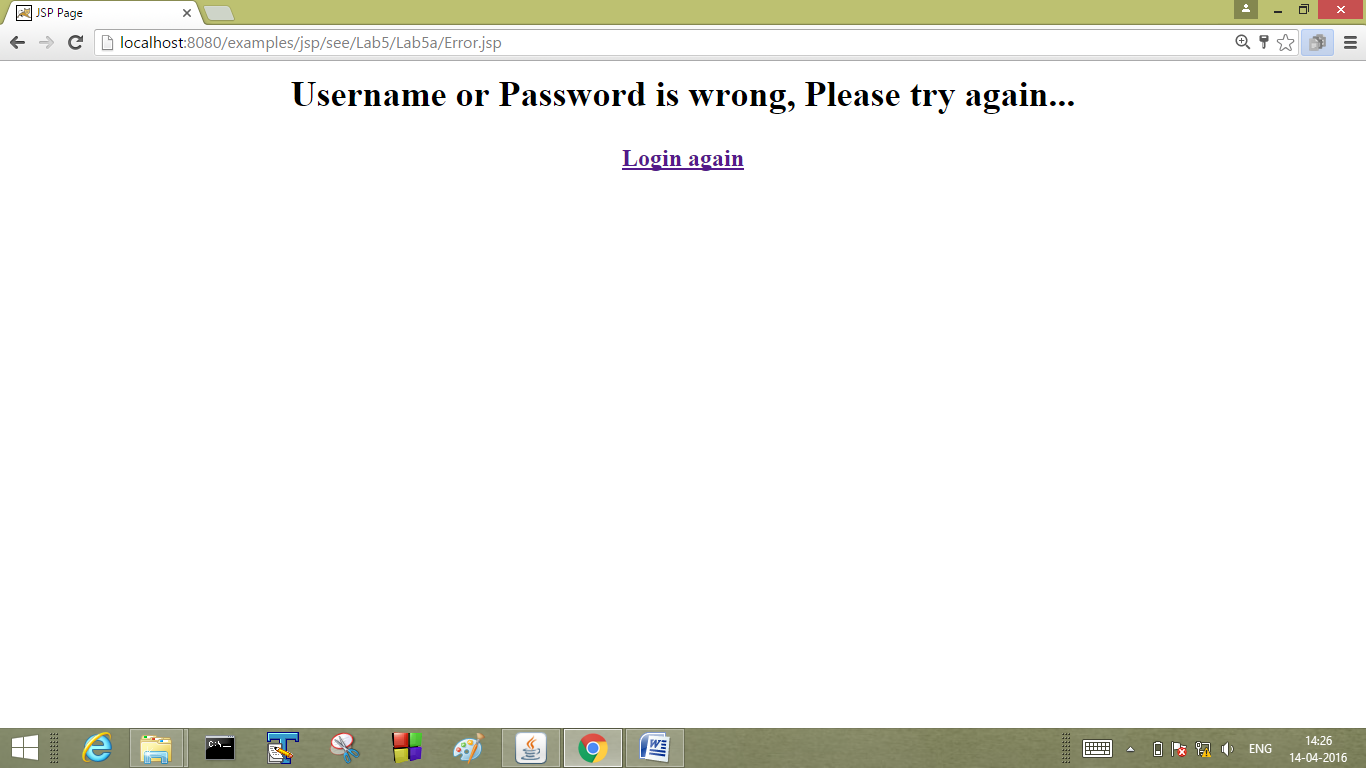
**OUT PUT:**











**5 b. Write a JSP program to demonstrate the import attribute.**

<html>

<body>

<%@ page import="java.util.Date"%>

<%@ page import="java.lang.Math"%>

<center>

<b>

Today is:<%=new Date() %><br>

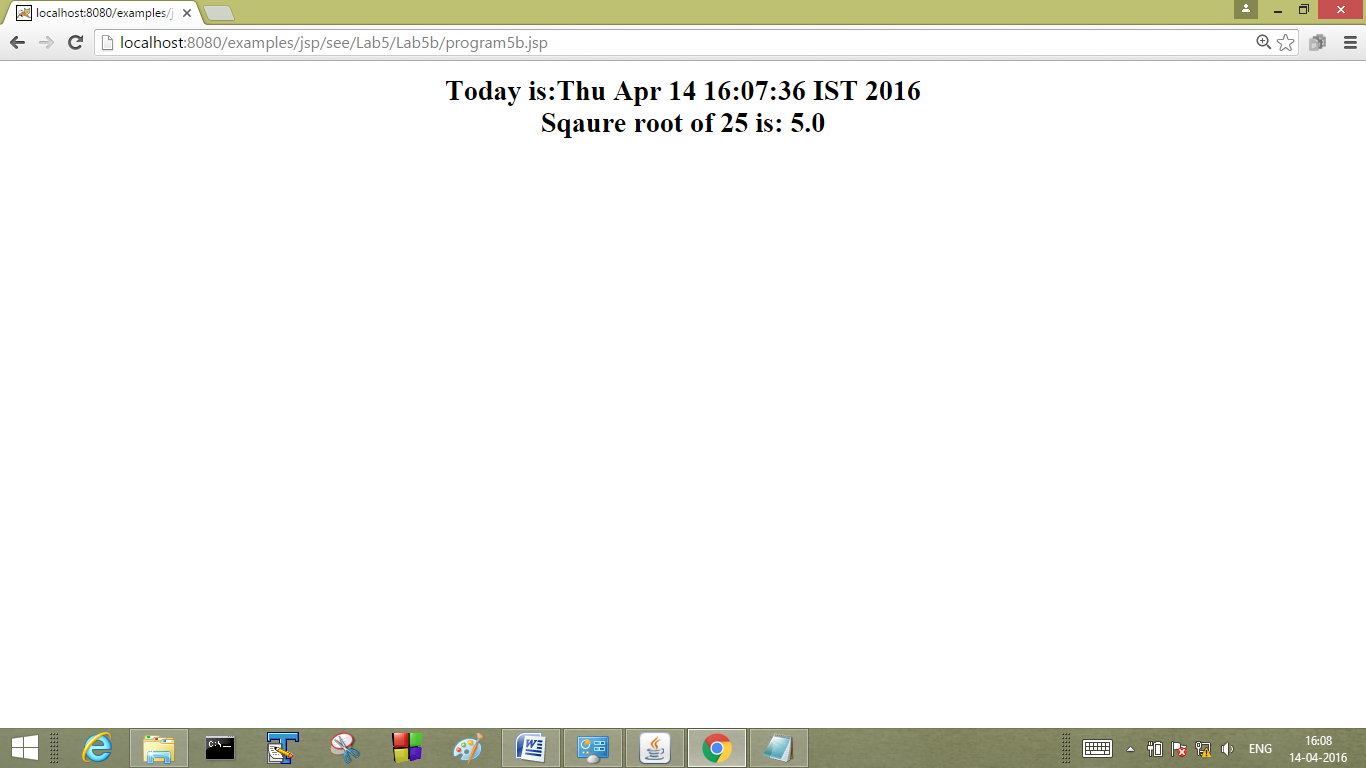
Sqaure root of 25 is: <%=Math.sqrt(25) %>

</b></center>

</body>

</html>

**OUT PUT:**



**6. Write a JAVA JSP Program which uses jsp:include and jsp:forward action to display a Webpage.**

**L6.html:**

<html>

<head>

<title> JSP Include & Forward example </title>

</head>

<body><center>

<h3> Please Choose anyone : </h3>

<b>

<form action="l6.jsp" method="POST">

Include: <input type="radio" name="r" value="include"><br/><br>

Forward: <input type="radio" name="r" value="forward"><br/><br>

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

</form>

</b></center>

</body>

</html>

**L6.jsp:**

<html>

<head>

<title> JSP Include & Forward example </title>

</head>

<body>

<% String s;

s = request.getParameter("r");

if(s.equals("include"))

{ %>

<jsp:include page="inc.jsp"/>

<% }

else

{

%>

<jsp:forward page="for.jsp"/>

<% }

%>

</body>

</html>

**Inc.jsp:**

<html>

<head>

<title> Jsp Include example </title></head>

<body>

<hr>

<center>

<h1>BMS College Of Engineering</h1>

</center>

<jsp:include page="display.jsp">

<jsp:param name="Name" value="Seetharama"/>

</jsp:include>

</body></html>

**for.jsp:**

<html><head>

<title> JSP Forward example </title></head>

<body>

<h1> BMS College of Engineering</h1>

<jsp:forward page="display1.jsp">

<jsp:param name="result" value="Pass"/>

</jsp:forward>

</body></html>

**display.jsp:**

<html><head>

<title> Display Pages </title></head>

<body>

<h1> BMS College Of Engineering Located in Basavangudi Banglore.It is

the odlest college engineering college in Banglore.

</body></html>

**display1.jsp:**

<html><head>

<title> Display Pages </title></head>

<body>

<center>

<h1>

<hr>

Welcome to BMS College of Engineering Results page

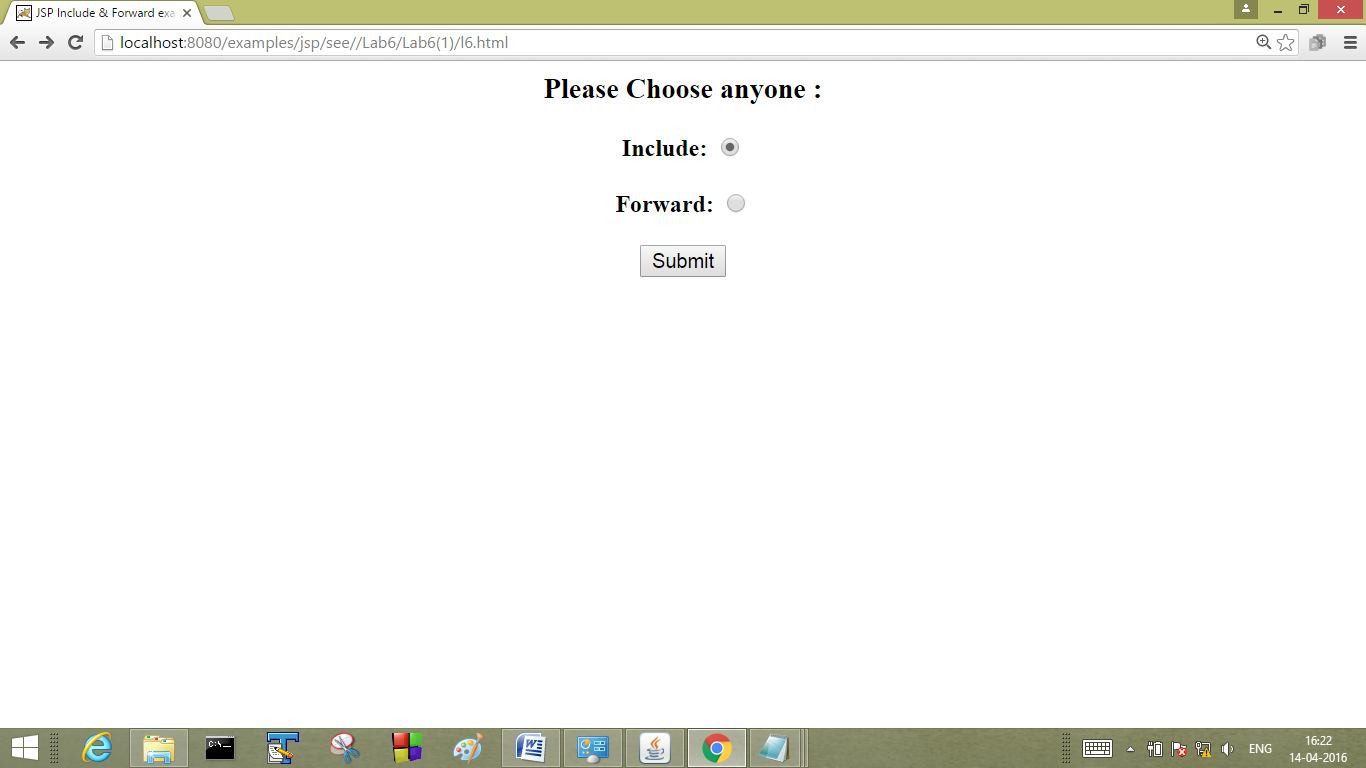
<hr>

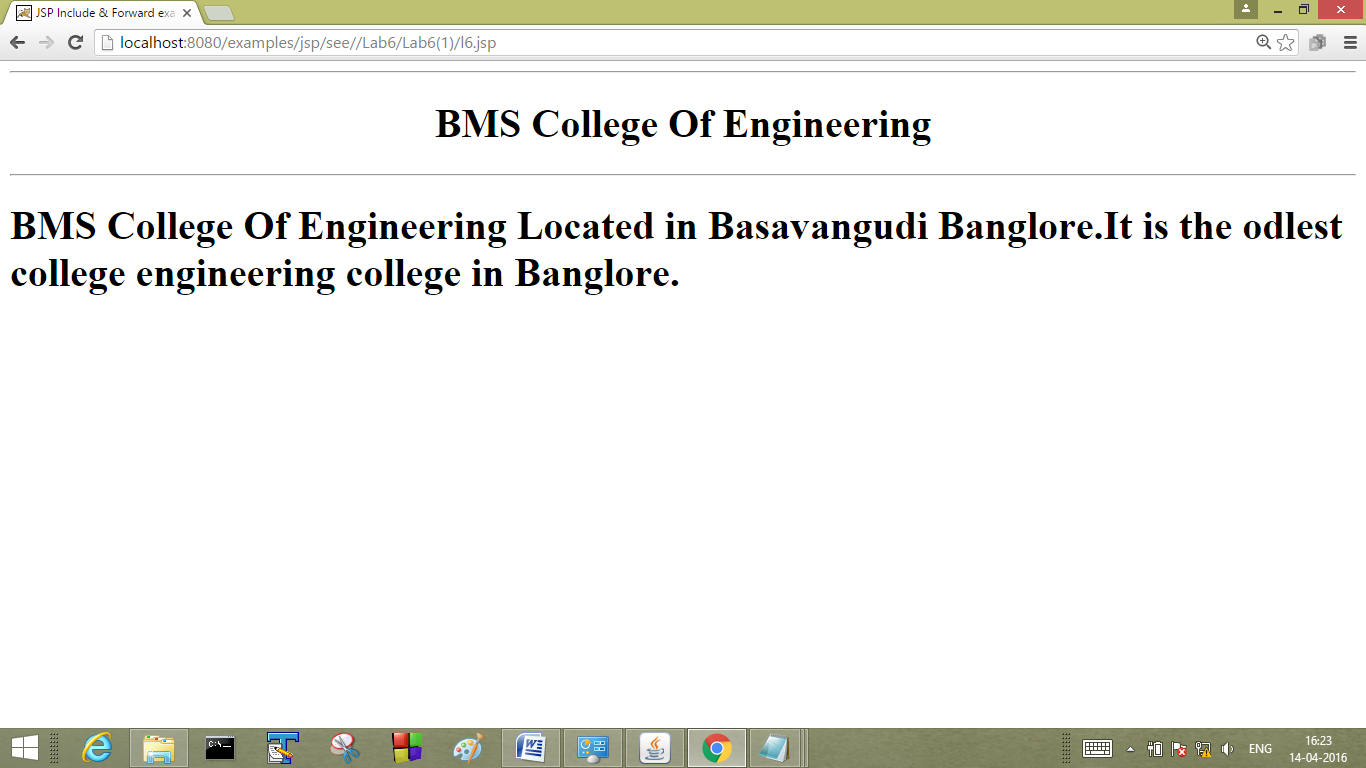
<h1>

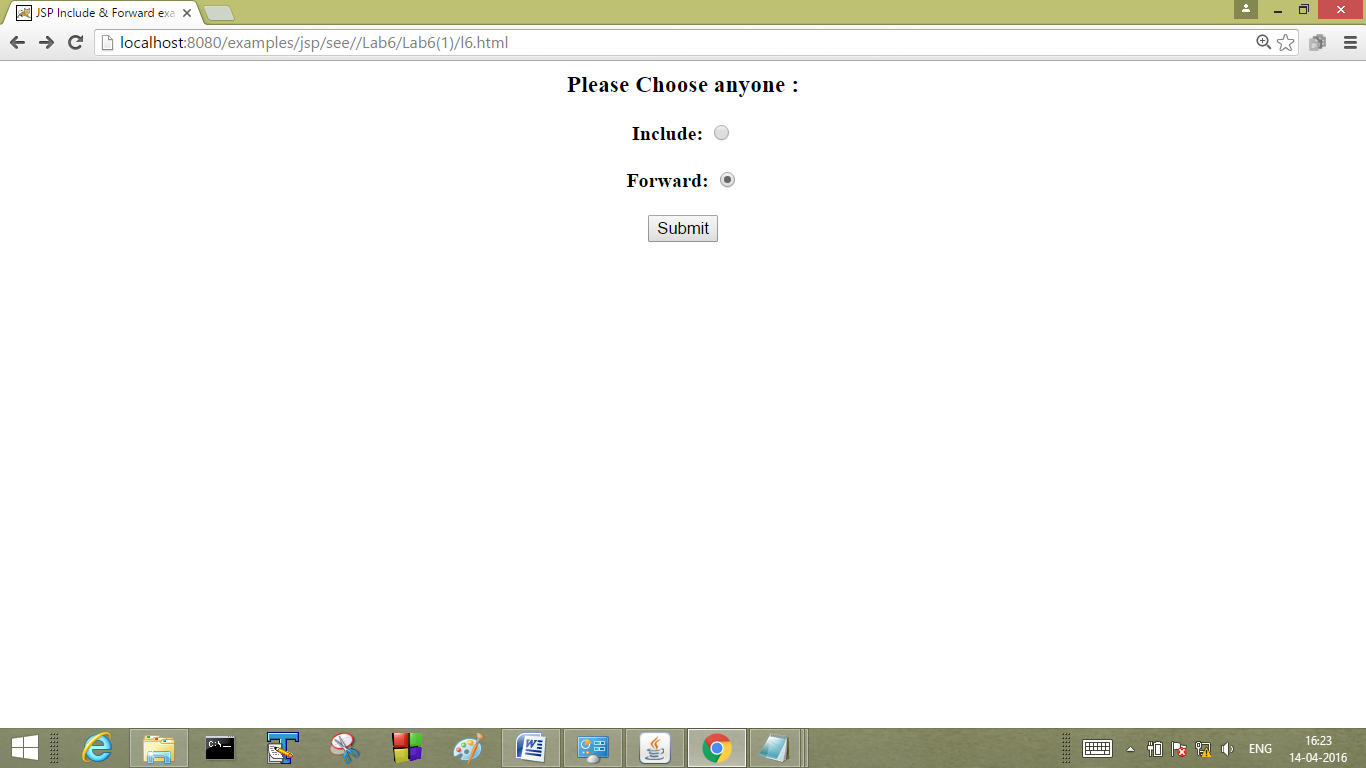
Result:<%=request.getParameter("result") %>;

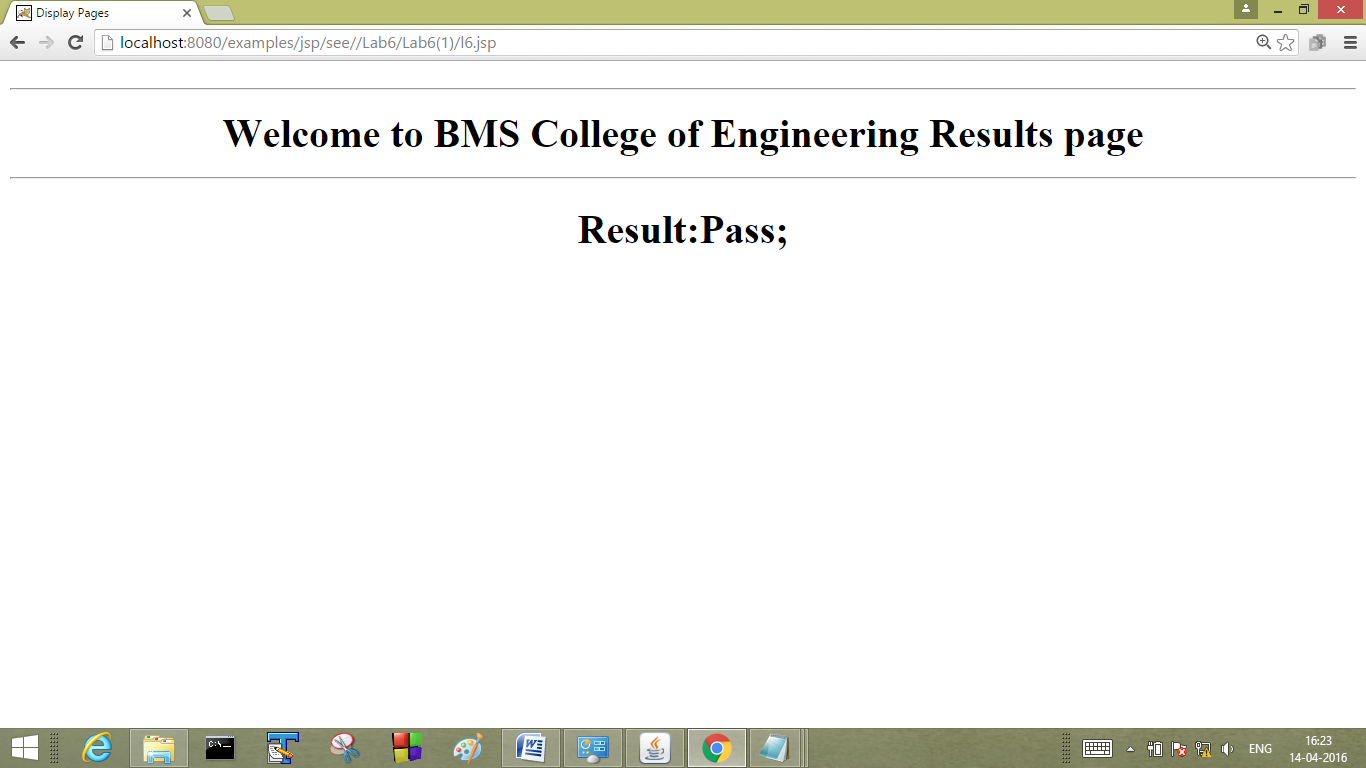
</body></html>

**OUTPUT:**

****

****

****

****

**7. Write a JAVA JSP Program which uses <jsp:plugin> tag to run a applet.**

**JavaApplet.java:**

import java.applet.Applet;

import java.awt.Graphics;

import java.awt.Color;

public class JavaApplet extends Applet

{

int x1=0, y1=20, x2, y2;

@Override

public void init()

{

setBackground (Color.yellow);

}

@Override

public void paint(Graphics g)

{

if(x1 > 300)

x1=0;

g.fillOval(x1, y1, 30, 30);

x1++;

try

{

Thread.sleep(100);

}

catch(Exception e){}

repaint();

}

}

**P7.jsp:**

<%@page contentType="text/html" pageEncoding="UTF-8"%>

<!DOCTYPE html>

<html>

<head>

<title>Applet JSP Page</title>

</head>

<body>

<jsp:plugin type="applet" code="JavaApplet.class" codebase="applet" width="400" height="400">

<jsp:fallback>

<p>Unable to load applet</p>

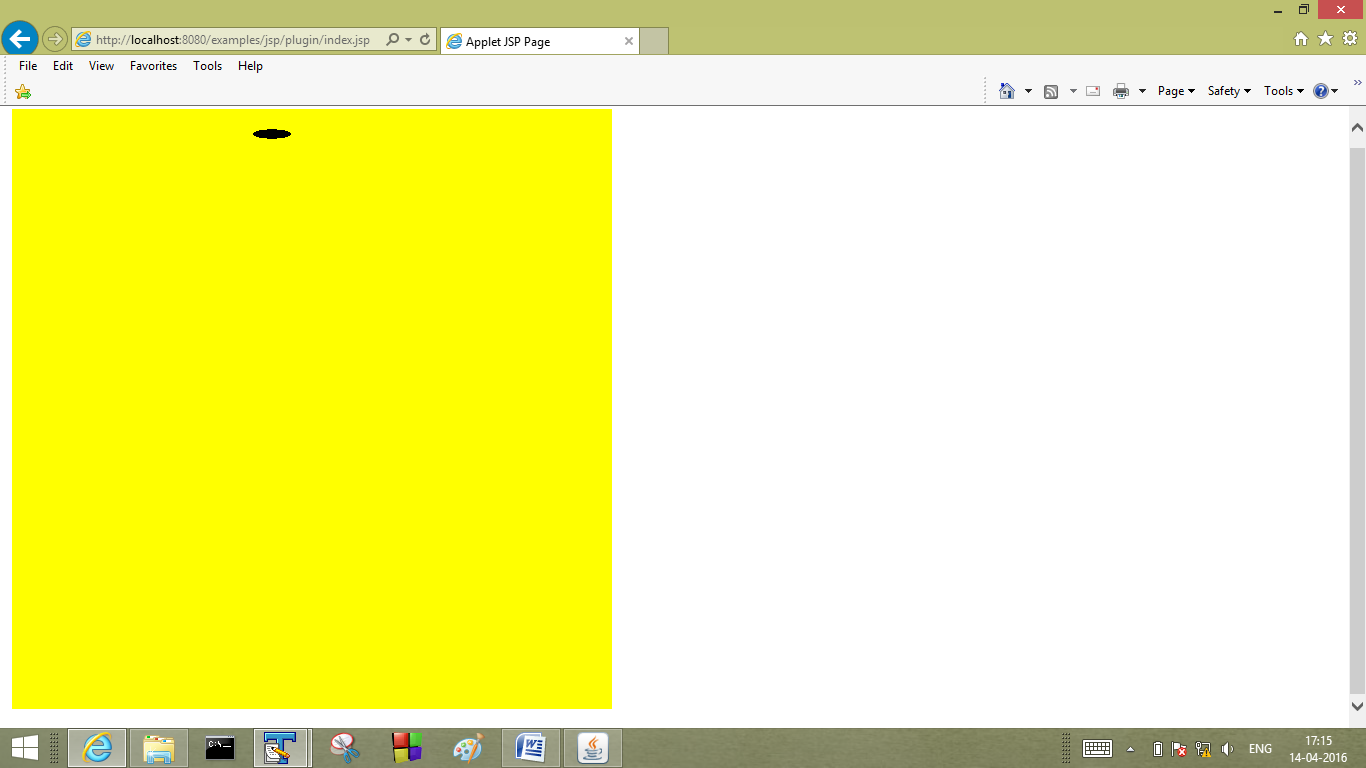
</jsp:fallback>

</jsp:plugin>

</body>

</html>

**OUT PUT:**

****

**8. Write a JAVA JSP Program to get student information through a HTML and create a JAVA Bean class, populate Bean and display the same information through another JSP.**

**Studinfo.html:**

<html>

<head>

<title> Student Details </title></head>

<body>

<center>

<form method="post" action="first.jsp">

<hr>

<h1> Student Information </h1><br/><br/>

<hr>

<h1>

USN: <input type="text" name="usn"/><br/><br>

Name: <input type="text" name="sname"/><br/><br>

Mobile: <input type="text" name="mnum"/><br/><br>

Email: <input type="email" name="semail"/><br/><br>

<input type="submit" value="Display"/>

</h1>

</form></body></html>

**First.jsp:**

<html>

<body>

<jsp:useBean id="stud" scope="request" class="beans.Student"/>

<jsp:setProperty name="stud" property="\*"/>

<jsp:forward page="display.jsp"/>

</body></html>

**Display.jsp:**

<html>

<body>

<h1> Student Information </h1>

<center>

<jsp:useBean id="stud" scope="request" class="beans.Student"/>

<table border=1>

<tr><th>Name</th><th>USN></th><th>Mobile</th><th>Email</th></tr>

<tr><td><jsp:getProperty name="stud" property="sname"/></td>

<td><jsp:getProperty name="stud" property="usn"/></td>

<td><jsp:getProperty name="stud" property="mnum"/></td>

<td><jsp:getProperty name="stud" property="semail"/></td>

</tr>

</table>

</body></html>

**Student.java:**

package beans;

public class Student

{

public String sname,semail,mnum;

public int usn;

public void setsname(String s)

{

sname=s;

}

public String getsname()

{

return sname;

}

public void setsemail(String se)

{

semail=se;

}

public String getsemail()

{

return semail;

}

public void setmnum(String sn)

{

mnum=sn;

}

public String getmnum()

{

return mnum;

}

public void setusn(int su)

{

usn=su;

}

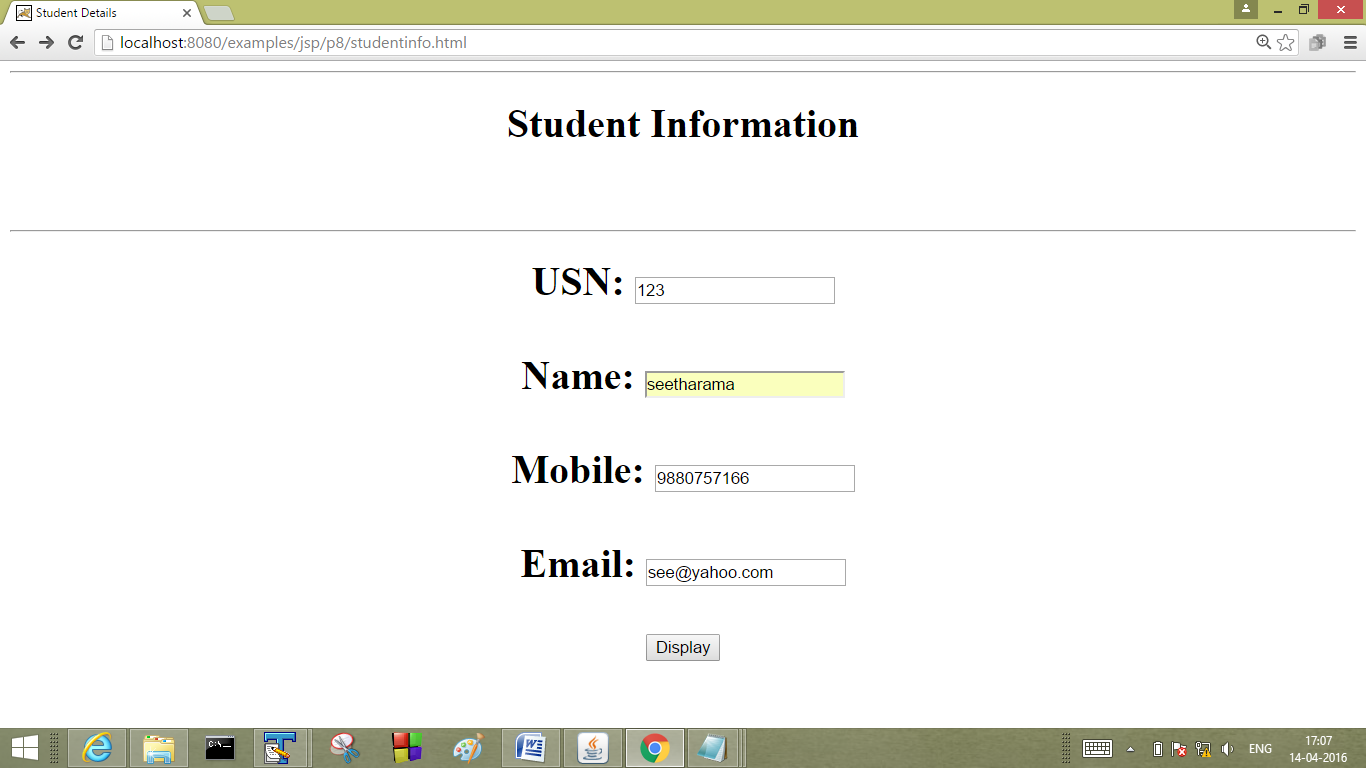
public int getusn()

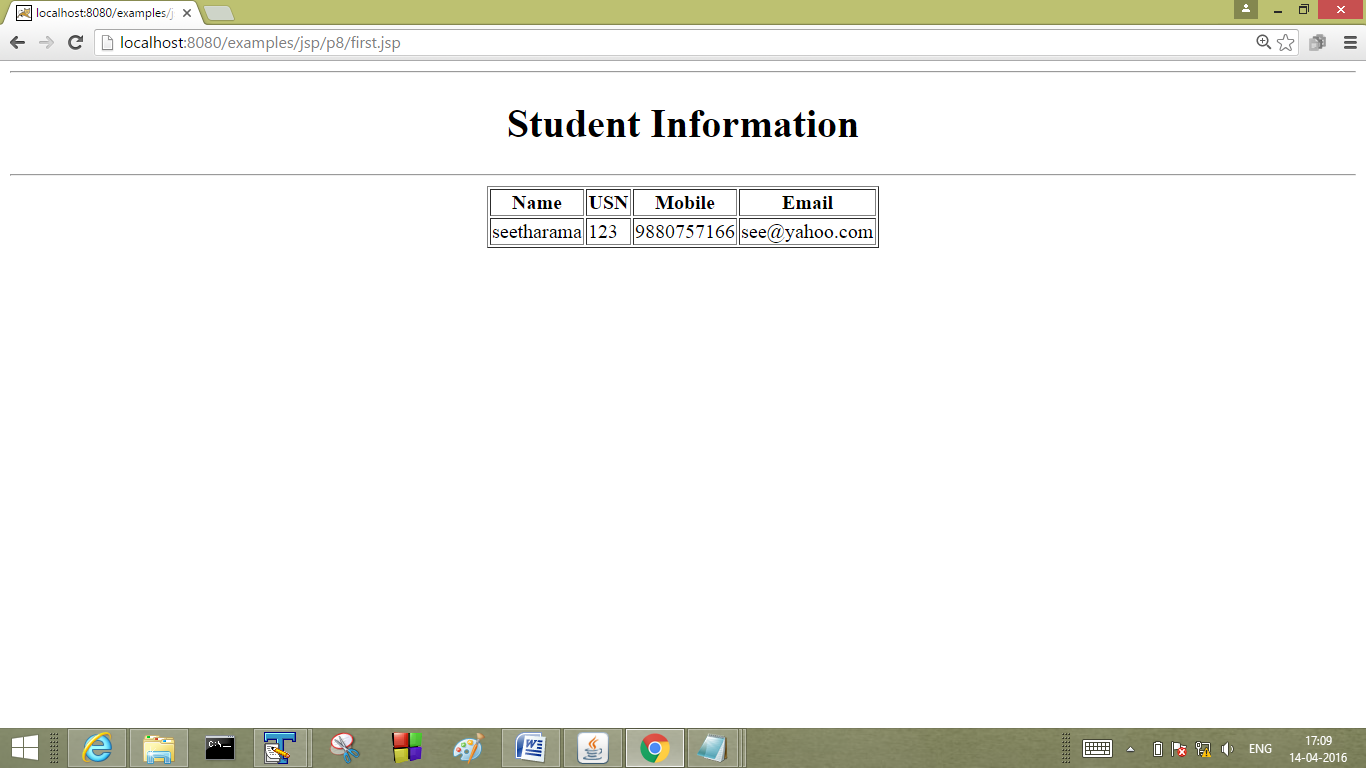
{

return usn;

}

}

**OUTPUT:  
 **

****

**9. Write a JAVA Program to insert data into Student DATA BASE and retrieve info based on particular queries (For example update, delete, search etc…).**

import java.sql.\*;

public class odbc

{

public static void main(String[] args)

{

Connection con=null;

try

{

Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");

con=DriverManager.getConnection("jdbc:odbc:student");

System.out.println("Connection ok");

Statement sta=con.createStatement();

//int count=sta.executeUpdate("create table Student (usn INT,Name

VARCHAR(20),address VARCHAR(20),marks INT)"); System.out.println("Table created");

int count=sta.executeUpdate("insert into Student

values(1,'st1','chennai',78)");

count=sta.executeUpdate("insert into Student values(2,'st2','mumbai',88)");

count=sta.executeUpdate("insert into Student values(3,'st3','chennai',56)");

ResultSet rs = sta.executeQuery("select \* from Student");

System.out.println("\n\n\nUSN\tName\t\tCity\t\t\tMarks");

while (rs.next())

{

int ID = rs.getInt("usn");

String name = rs.getString("name");

String City = rs.getString("address");

int marks=rs.getInt("marks");

System.out.println(ID+"\t"+name+"\t\t"+City+"\t\t" +marks);

}

count=sta.executeUpdate("delete from Student where usn=1");

rs = sta.executeQuery("select \* from Sudent");

System.out.println("\n\n\nUSN\tName\t\tCity\t\t\tMarks");

while (rs.next())

{

int ID = rs.getInt("usn");

String Streetname = rs.getString("name");

String City = rs.getString("address");

int marks=rs.getInt("marks");

System.out.println(ID+"\t"+Streetname+"\t\t"+City+"\t\t" +marks);

}

sta.close();

con.close();

}

catch(Exception e)

{

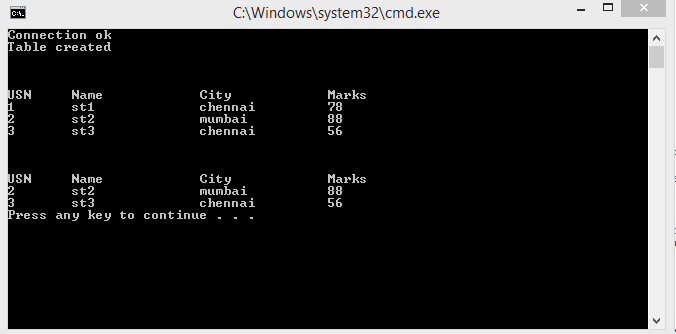
System.err.println("Exception:"+e.getMessage());

}

}

}

**OUTPUT:**

****

**10. Write a JSP program to implement all the attributes of page directive tag.**

<html>

<body>

<h2>Demonstrattion of Import Directive</h2>

<%@ page import = "java.util.Date" %>

<% out.println("Date is " +new Date()); %><br>

<%@ page isErrorPage ="true" %>

Sorry Exception occured in this page

<h2> isErrorPage</h2>

<%@ page errorPage="myerrorpage.jsp"%>

<b> 100/8 is <%=100/8 %><br>

<h2> User of Isthread</h2>

<%@ page isThreadSafe="false" %>

<h2> Buffer </h2>

<%@ page buffer="20kb"%>

Today is <%=new java.util.Date() %>

**OUT PUT:**

****