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).

Login.html

<html>

<head>

<title>Login page</title>

</head>

<body>

<form method="post" action="LoginServlet">

<center>

<h1> LOGIN</h1>

<p>User Name:<input type="text" name="user"><br>

<p>Password:<input type="password" name="pass"><br>

<p> <input type="submit" name="submit" value="Login"> <br>

</form>

</body>

</html>

LoginServlet.java

import java.io.\*;

import javax.servlet.\*;

public class LoginServlet extends GenericServlet {

@Override

public void service(ServletRequest request,ServletResponse response)

throws ServletException, IOException {

PrintWriter out = response.getWriter();

{

out.println("<html>");

out.println("<head>");

out.println("<title>Login Servlet</title>");

out.println("</head>");

out.println("<body>");

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

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

out.println("username :"+user+"<br>");

out.println("password :"+pass);

out.println("</body>");

out.println("</html>");

}

}

}

Web.xml

<web-app>

<servlet>

<servlet-name>LoginServlet</servlet-name>

<servlet-class>LoginServlet</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>LoginServlet</servlet-name>

<url-pattern>/LoginServlet</url-pattern>

</servlet-mapping>

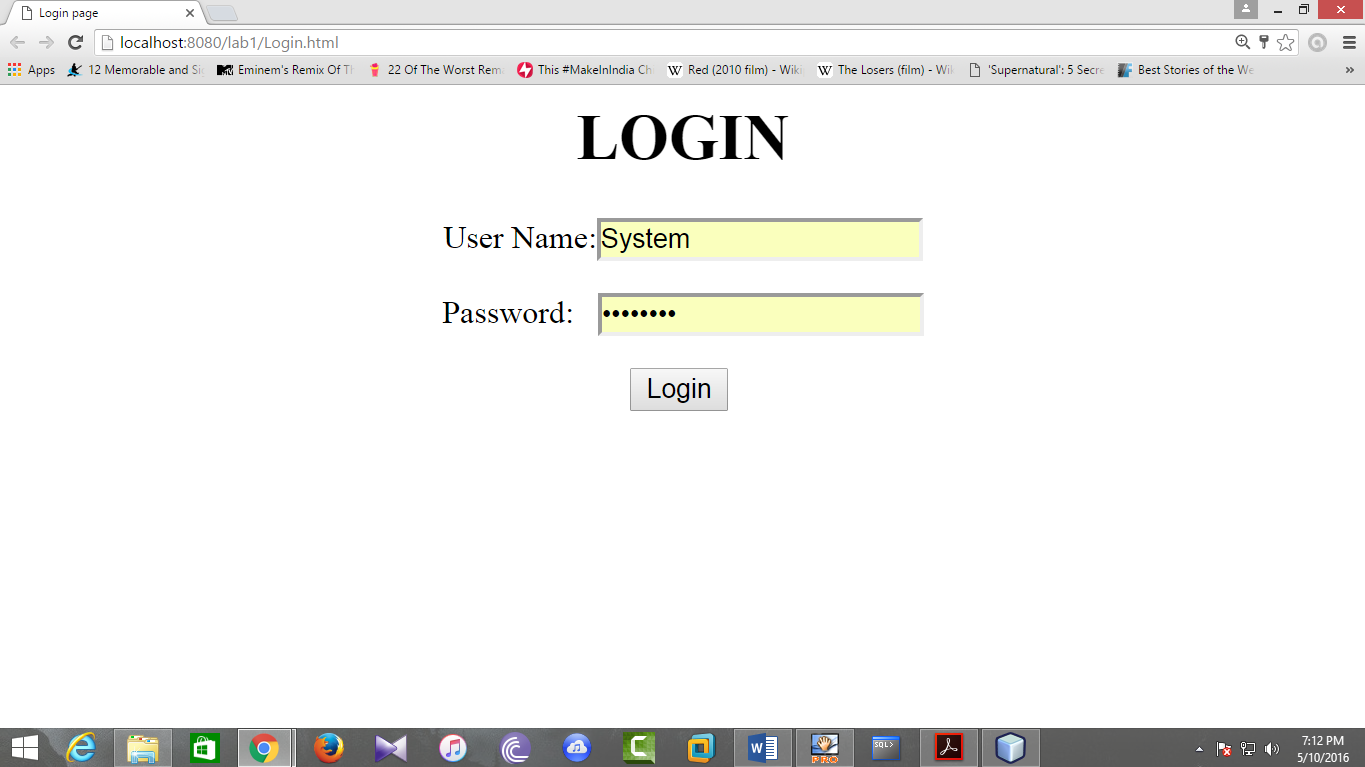
<welcome-file-list>

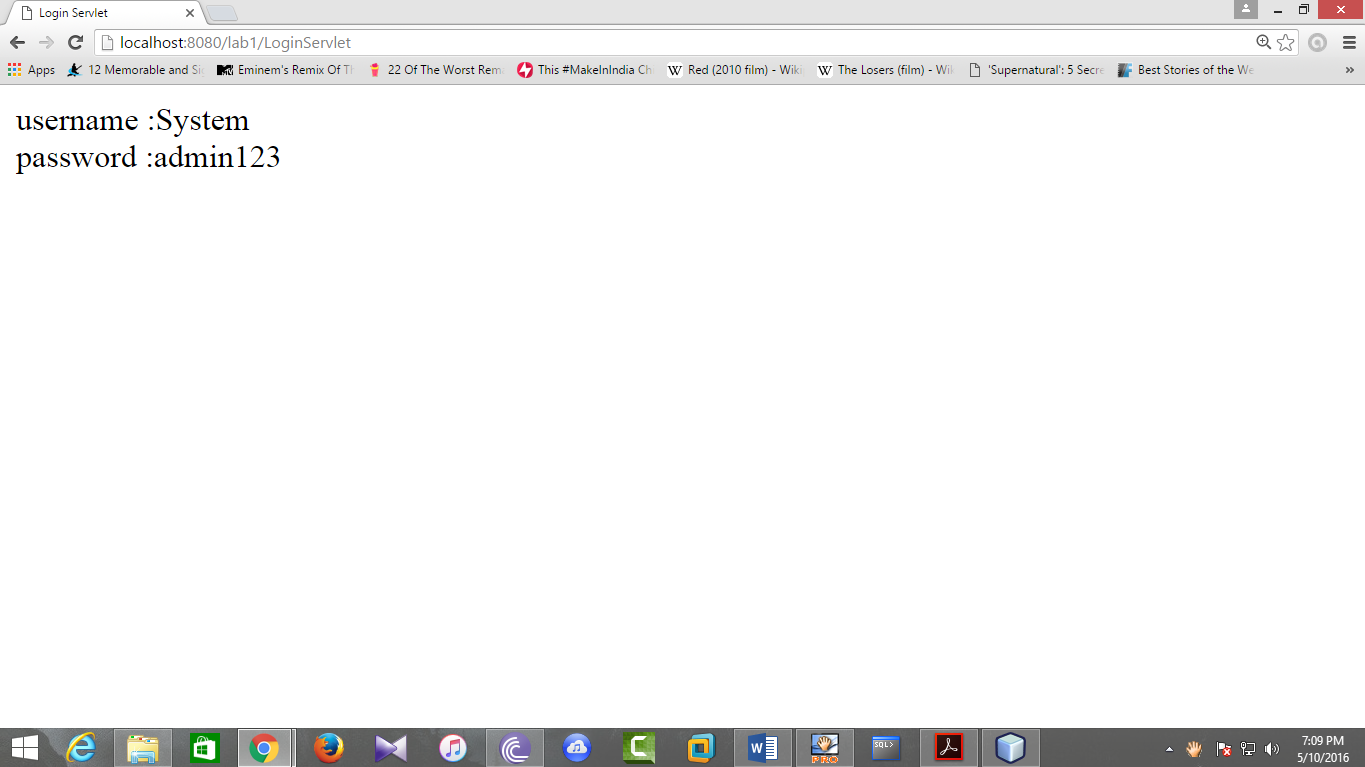
<welcome-file>Login.html</welcome-file>

</welcome-file-list>

</web-app>

Output:





1. 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).

Refresh.html

<html>

<head>

<title>Auto Refresh</title>

</head>

<body bgcolor="ivory">

<div>Auto Refresh</div>

<form method="post" action="RefreshServlet">

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

</form>

</body>

</html>

RefreshServlet.java

import java.io.\*;

import javax.servlet.\*;

import javax.servlet.http.\*;

import java.util.\*;

// Extend HttpServlet class

public class RefreshServlet extends HttpServlet {

// Method to handle GET method request.

public void doGet(HttpServletRequest request,

HttpServletResponse response)

throws ServletException, IOException

{

// Set refresh, autoload time as 5 seconds

response.setIntHeader("Refresh", 1);

// Set response content type

response.setContentType("text/html");

// Get current time

Calendar calendar = new GregorianCalendar();

String am\_pm;

int hour = calendar.get(Calendar.HOUR);

int minute = calendar.get(Calendar.MINUTE);

int second = calendar.get(Calendar.SECOND);

if(calendar.get(Calendar.AM\_PM) == 0)

am\_pm = "AM";

else

am\_pm = "PM";

String CT = hour+":"+ minute +":"+ second +" "+ am\_pm;

PrintWriter out = response.getWriter();

String title = "Auto Page Refresh using Servlet";

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 bgcolor=\"#f0f0f0\">\n" +

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

"<p>Current Time is: " + CT + "</p>\n");

}

// Method to handle POST method request.

public void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

doGet(request, response);

}

}

Web.xml

<?xml version="1.0" encoding="UTF-8"?>

<web-app>

<servlet>

<servlet-name>RefreshServlet</servlet-name>

<servlet-class>RefreshServlet</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>RefreshServlet</servlet-name>

<url-pattern>/RefreshServlet</url-pattern>

</servlet-mapping>

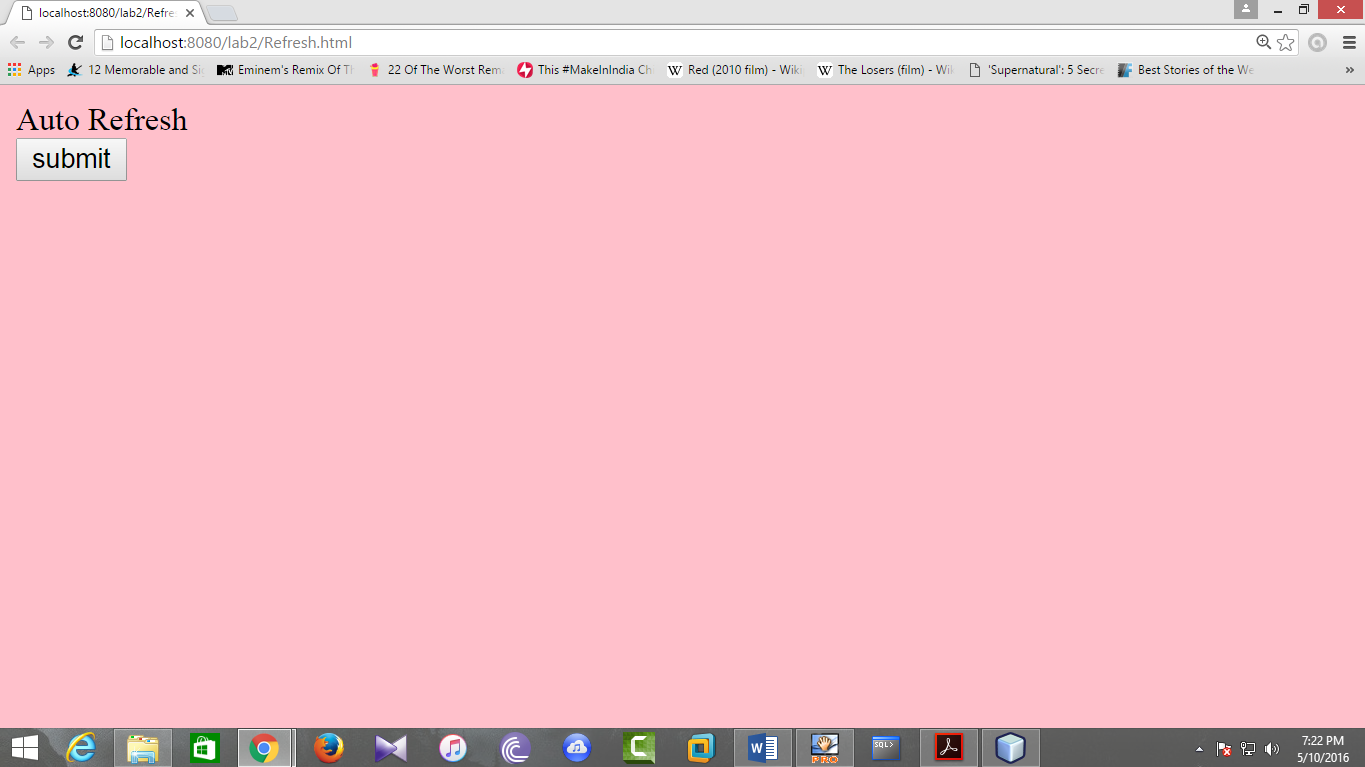
<welcome-file-list>

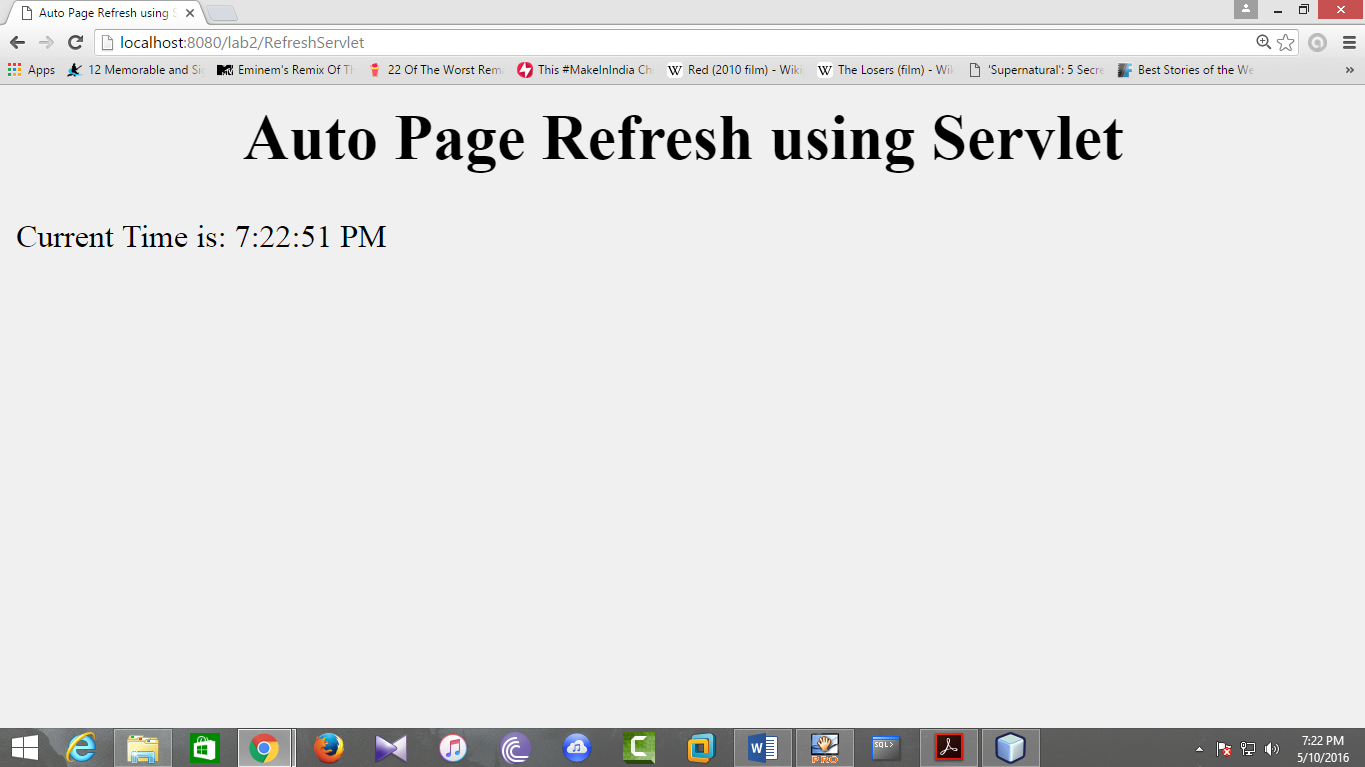
<welcome-file>Refresh.html</welcome-file>

</welcome-file-list>

</web-app>

Output:





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

Color.html

<html>

<head><title>Implement Get & Post Method</title></head>

<body bgcolor="silver">

<center>

<form action="GetPostServlet" method="post">

<p>Press submit button to call Post method</p>

color: <select name="color" size="1">

<option value="red">RED</option>

<option value="pink">Pink</option>

<option value="silver">Silver</option>

</select>

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

<form action="GetPostServlet" method="get">

<p>Press submit button to call Post method</p>

color: <select name="color" size="1">

<option value="red">RED</option>

<option value="pink">Pink</option>

<option value="silver">Silver</option>

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

</center>

</body>

</html>

GetPostServlet.java

import java.io.\*;

import javax.servlet.\*;

import javax.servlet.http.\*;

public class GetPostServlet extends HttpServlet

{

@Override

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

{

String color=req.getParameter("color");

resp.setContentType("text/html");

PrintWriter pw=resp.getWriter();

pw.println("<html><body bgcolor="+color+">");

pw.println("<h3><u>Post Method() </u>:</h3>");

pw.println("<center><h1>You have selected "+ color +" color</h1></center></body></html>");

pw.close();

}

@Override

public void doGet(HttpServletRequest req, HttpServletResponse resp)throws ServletException,IOException

{

String color=req.getParameter("color");

resp.setContentType("text/html");

PrintWriter pw=resp.getWriter();

pw.println("<html><body bgcolor="+color+"><br/><br/>");

pw.println("<center><b>Hello from Get Method</b></center>");

pw.println("</body></html>");

pw.close();

}

}

Web.xml

<web-app>

<servlet>

<servlet-name>GetPostServlet</servlet-name>

<servlet-class>GetPostServlet</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>GetPostServlet</servlet-name>

<url-pattern>/GetPostServlet</url-pattern>

</servlet-mapping>

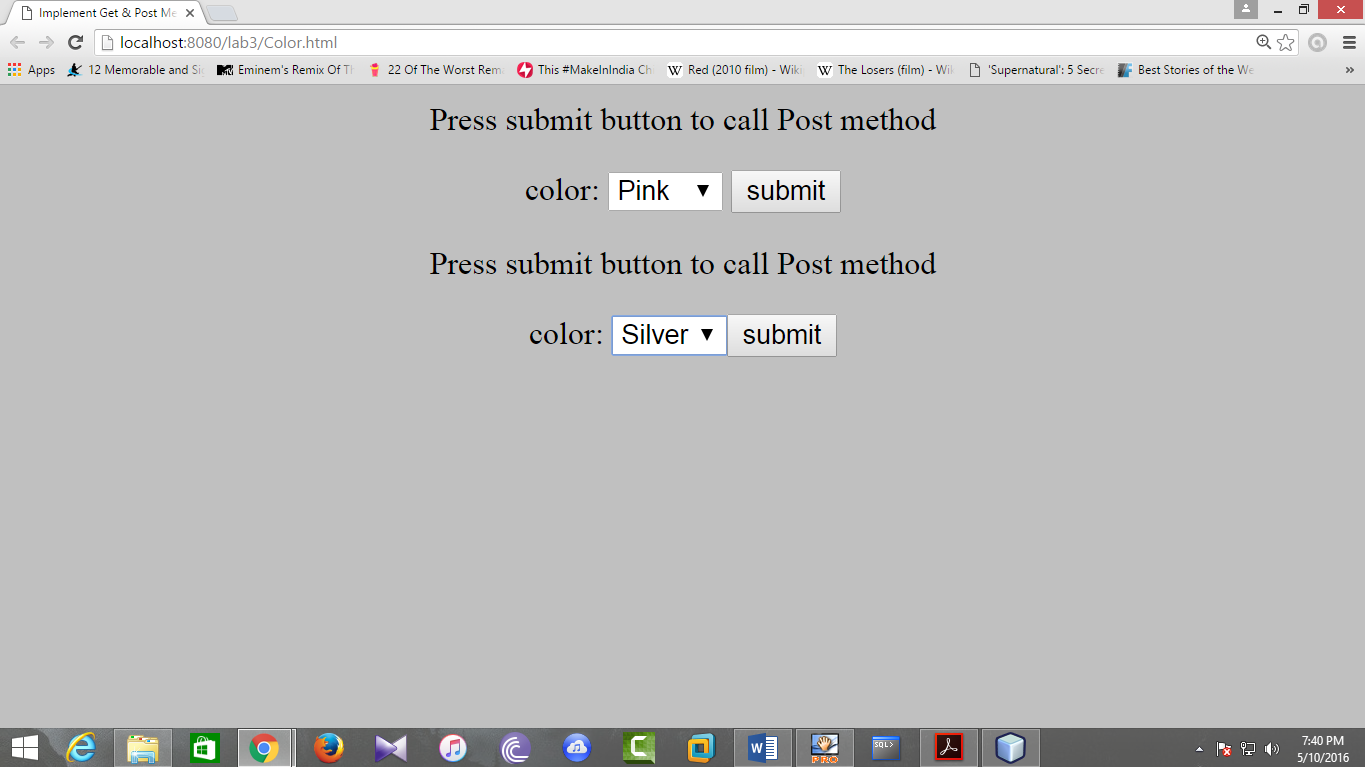
<welcome-file-list>

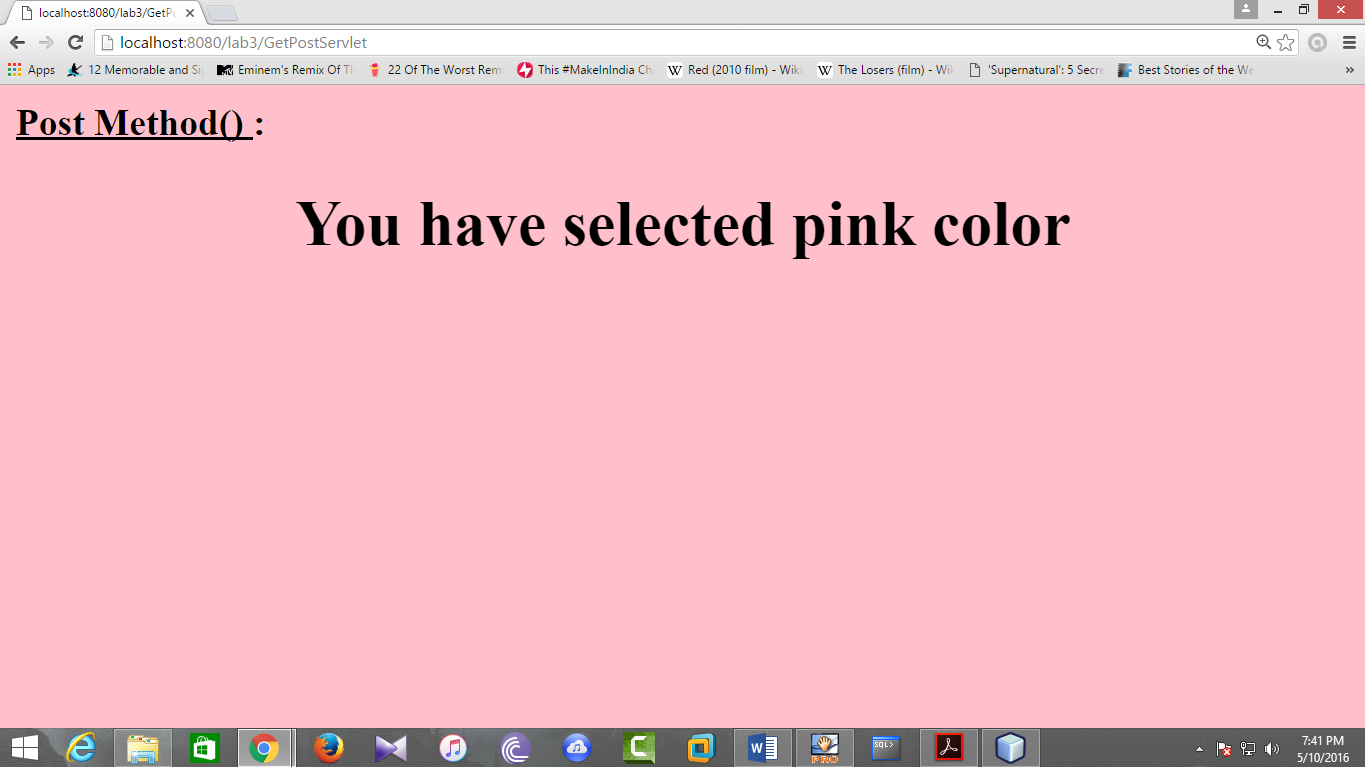
<welcome-file>Color.html</welcome-file>

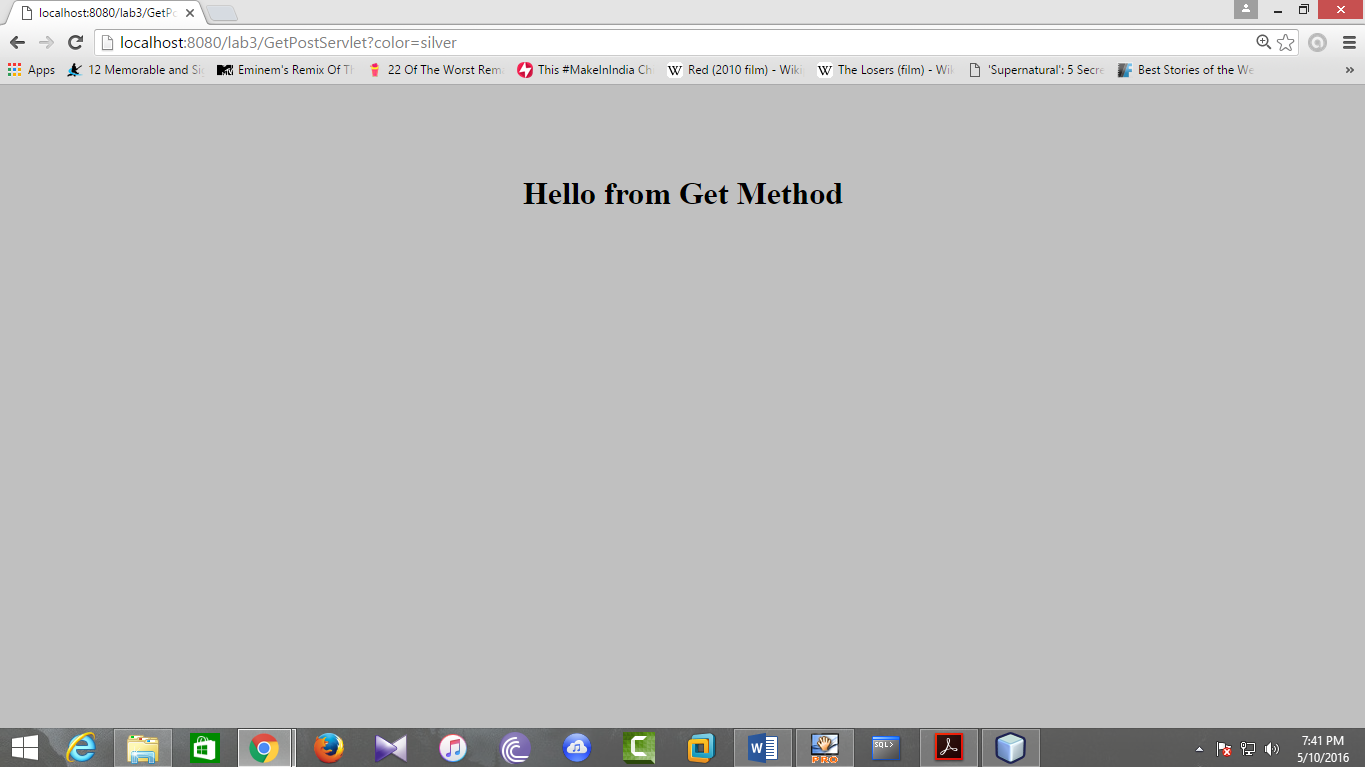
</welcome-file-list>

</web-app>

Output:







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

Cookie.html

<html>

<head><title> Cookies</title> </head>

<body>

<form action="CookieExample" method="GET">

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

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

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

</form>

</body>

</html>

CookieExample.java

import java.io.\*;

import javax.servlet.\*;

import javax.servlet.http.\*;

public class CookieExample extends HttpServlet {

public void doGet(HttpServletRequest request,

HttpServletResponse response)

throws ServletException, IOException

{

// Create cookies for first and last names.

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

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

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

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

// Set expiry date after 24 Hrs for both the cookies.

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

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

// Add both the cookies in the response header.

response.addCookie( firstName );

response.addCookie( lastName );

// Set response content type

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 bgcolor=\"#f0f0f0\">\n" +

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

"<ul>\n" +

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

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

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

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

"</ul>\n" +

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

}

}

Web.xml

<web-app>

<servlet>

<servlet-name>CookieExample</servlet-name>

<servlet-class>CookieExample</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>CookieExample</servlet-name>

<url-pattern>/CookieExample</url-pattern>

</servlet-mapping>

<welcome-file-list>

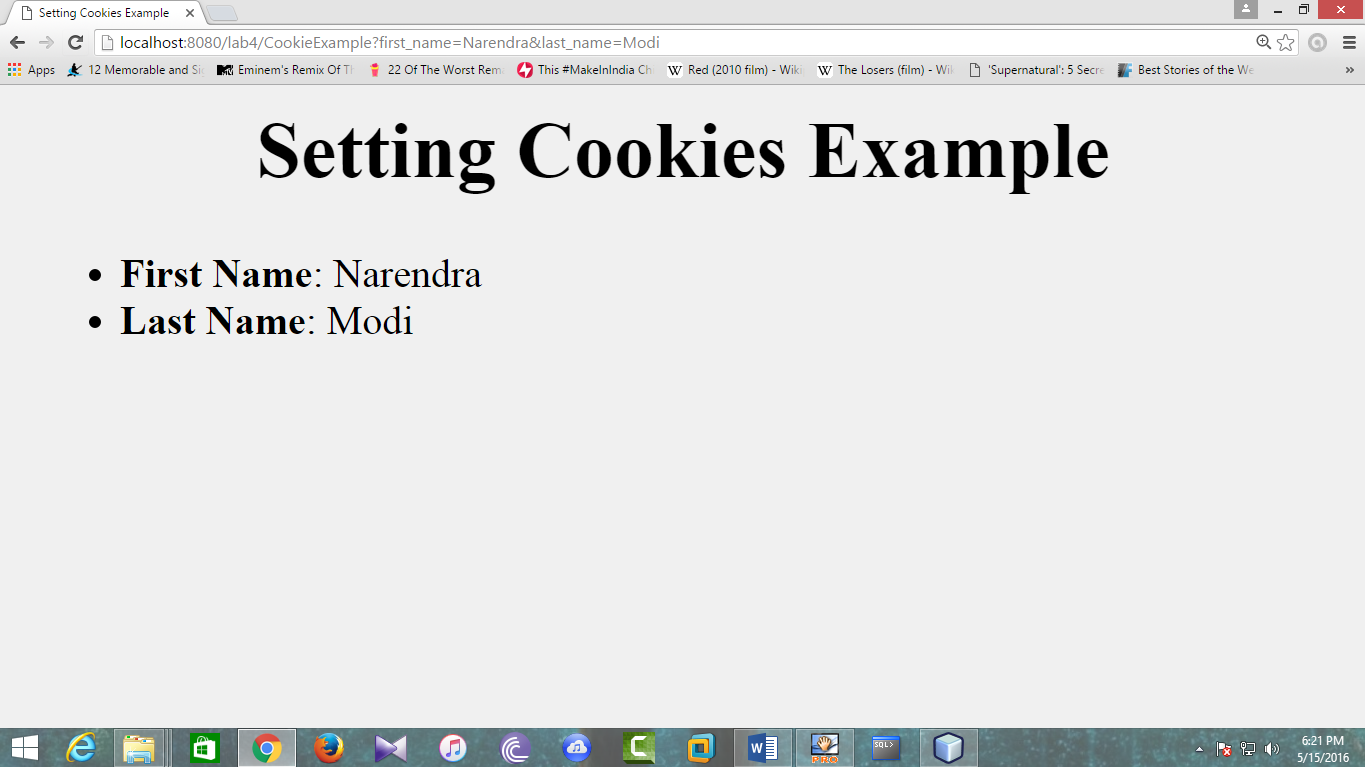
<welcome-file>cookie.html</welcome-file>

</welcome-file-list>

</web-app>

Output:





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

index.html

<html>

<head>

<title>Login Page</title>

</head>

<body>

<form action="Lab5a.jsp" method="POST">

<H3>please enter login details</H3>

UserName: <input type="text" name="user"/><br/>

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

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

</form>

</body>

</html>

Lab5a.jsp

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

<!DOCTYPE html>

<html>

<body>

<% String s2=request.getParameter("pass");

if(s2.equals("admin123")){

%>

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

<% } else { %>

<h3>Please reenter valid password</h3>

<%@include file="index.html" %>

<% } %>

</body>

</html>

welcome.jsp

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

<html>

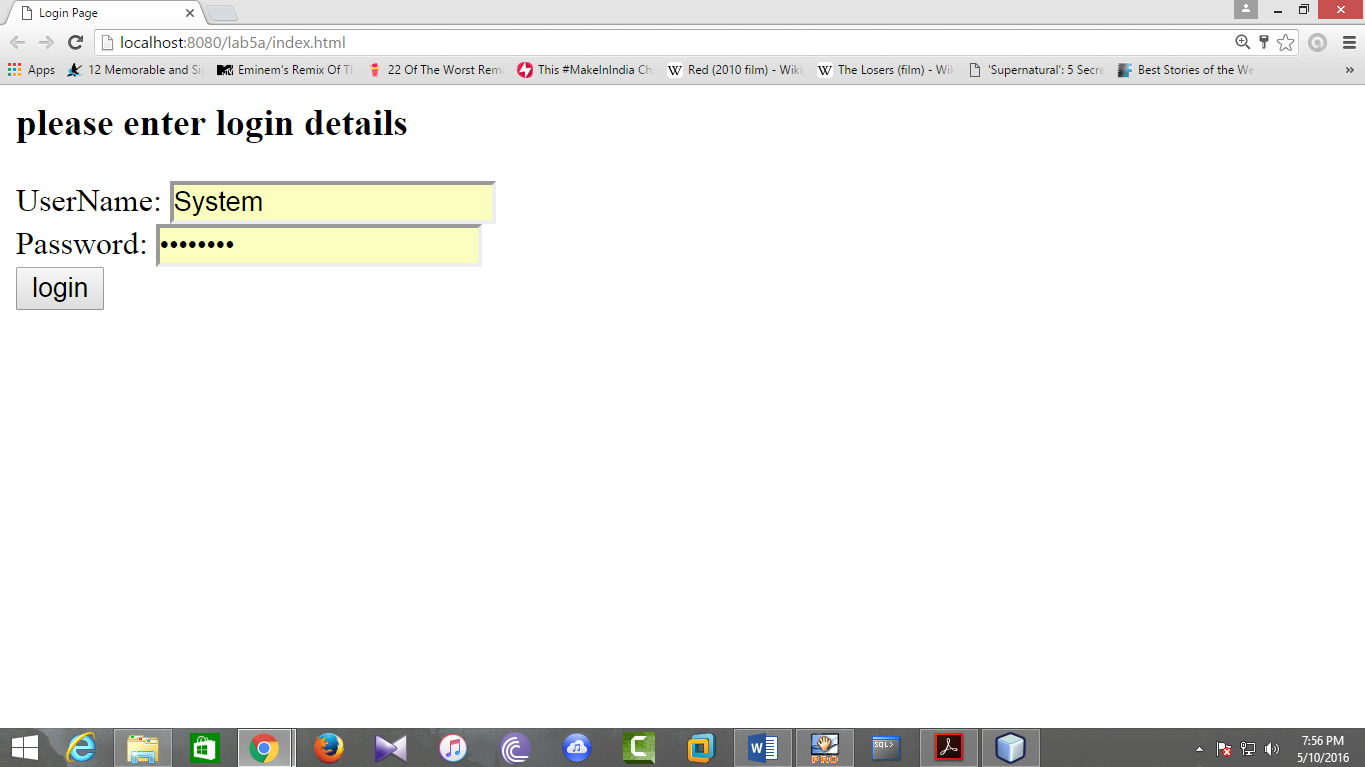
<body>

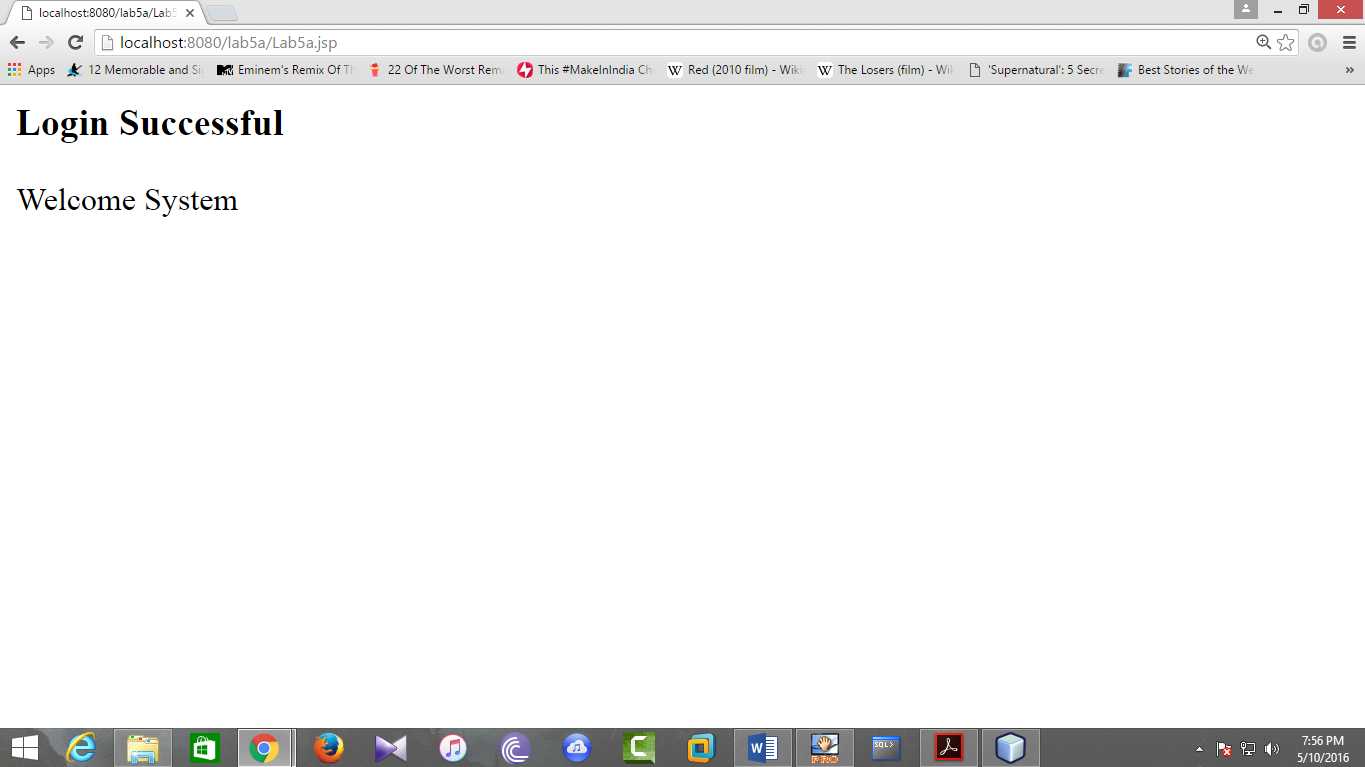
<h3> Login Successful</h1>

Welcome <%= request.getParameter("user") %>

</body></html>

Output:





B. Write a JSP program to demonstrate the import attribute.

index.html

<html>

<head><title>Login Page</title></head>

<body>

<form action="Lab5b.jsp" method="POST">

<H3>please enter login details</H3>

UserName: <input type="text" name="user"/><br/>

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

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

</form>

</body>

</html>

Lab5b.jsp

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

<!DOCTYPE html>

<html>

<body>

<% String s2=request.getParameter("pass");

if(s2.equals("admin123")){

%>

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

<% } else { %>

<h3>Please reenter valid password</h3>

<%@include file="index.html" %>

<% } %>

</body></html>

welcome.jsp

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

<%@page import="java.io.\*,java.util.\*" %>

<html>

<body>

<h3><B> Demonstration of import attribute !!!</B></h1>

Welcome <%= request.getParameter("user") %><br/><br/>

<% out.println("Your Browser is :" +

request.getHeader("user-agent")); %>

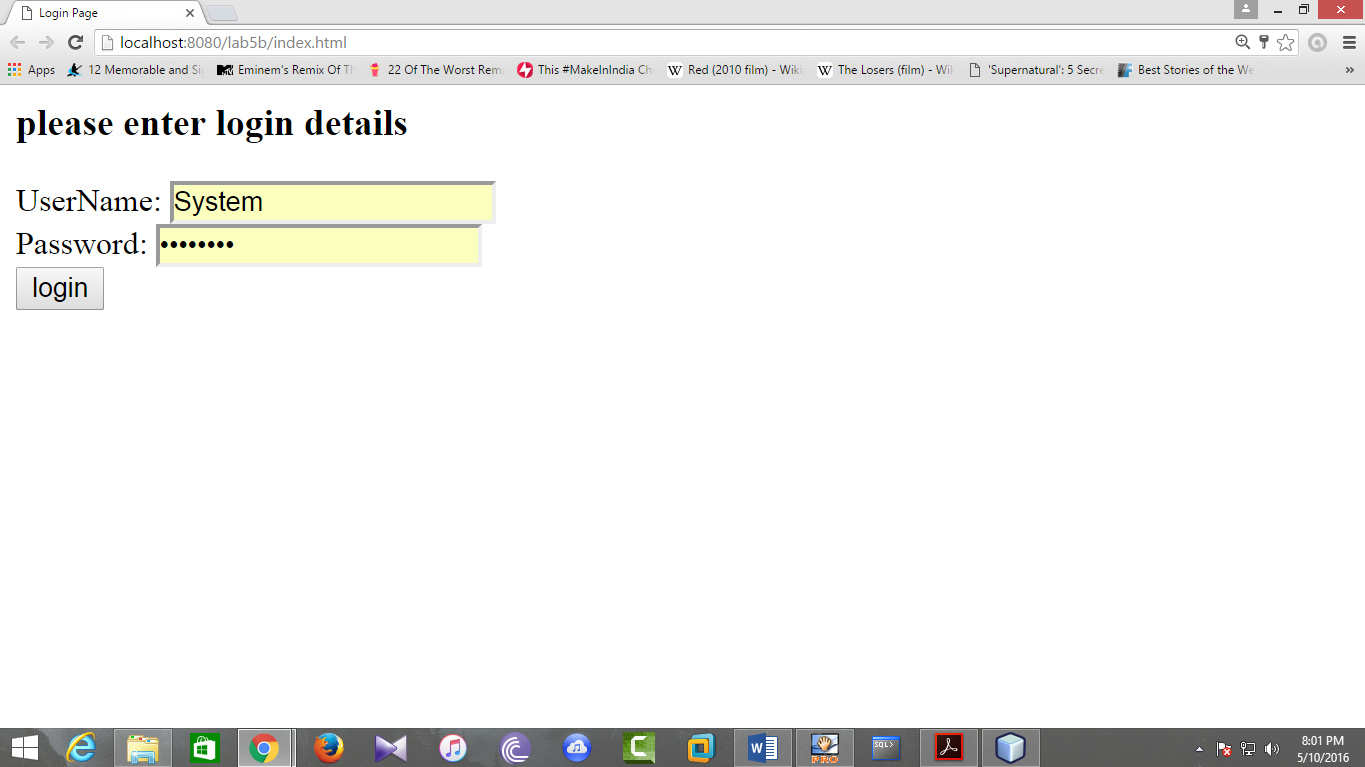
<br/>

Today's date and time is :

<%= (new Date()).toLocaleString()%>

</body></html>

Output:





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

index.html

<html>

<head>

<title>Login Page</title>

</head>

<body>

<h3></h3>

<form action="Lab6.jsp" method="POST">

<H3>please enter login details</H3>

UserName: <input type="text" name="user"/><br/>

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

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

</form>

</body>

</html>

Lab6.jsp

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

<!DOCTYPE html>

<html>

<body>

<% String s2=request.getParameter("pass");

if(s2.equals("admin123")){

%>

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

<% } else { %>

<h3>Please reenter valid password</h3>

<jsp:include page="index.html" flush="true"/>

<% } %>

</body>

</html>

welcome.jsp

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

<html>

<body>

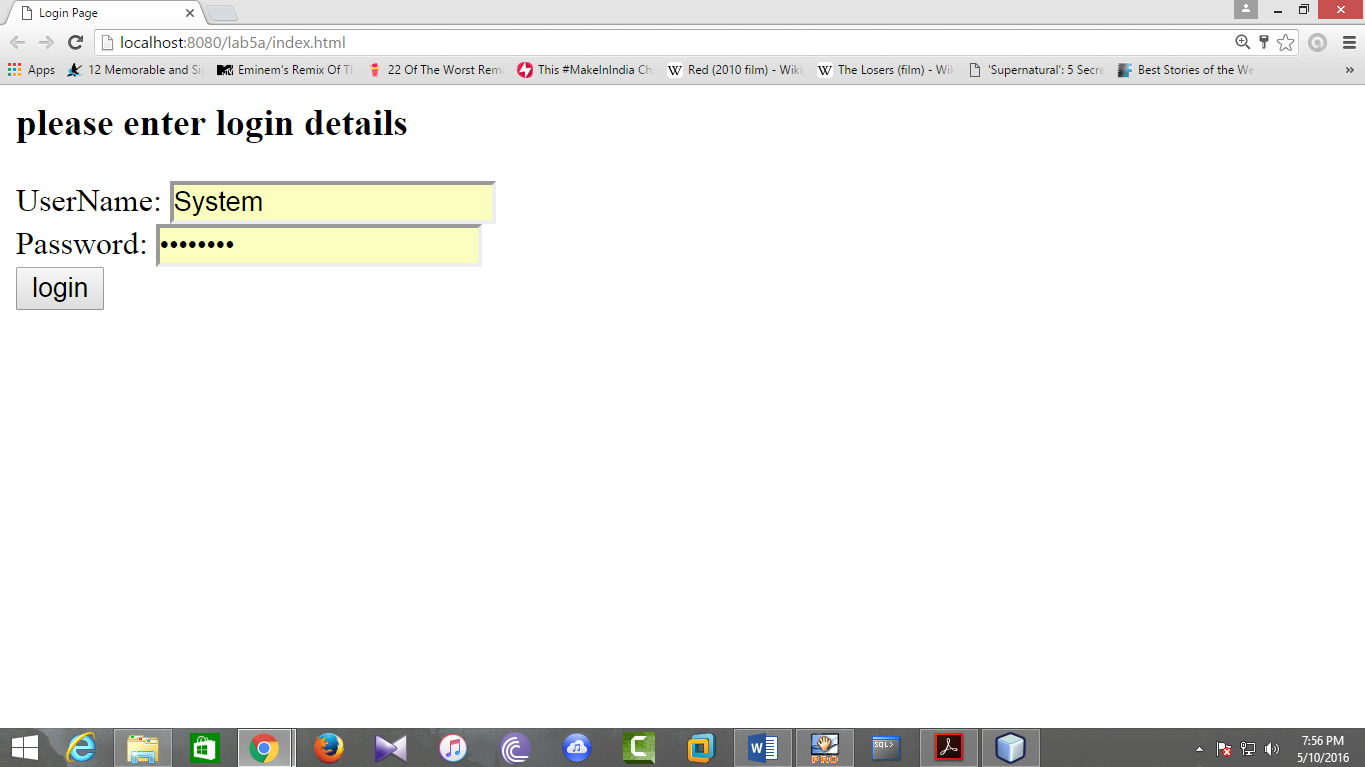
<h3> Login Successful</h1>

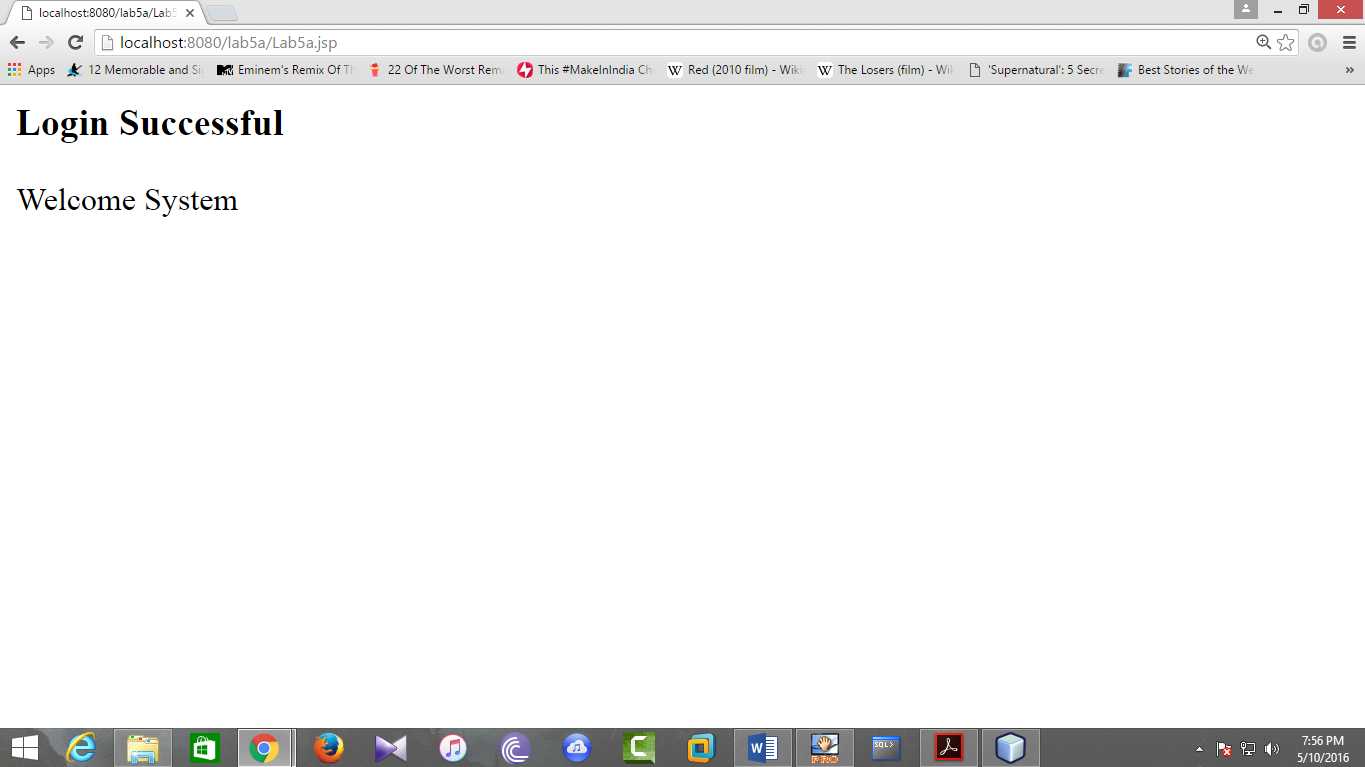
Welcome <%= request.getParameter("user") %>

</body>

</html>

Output:





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

lab7.jsp

<html>

<head>

<title>Login Page</title>

</head>

<body>

<h1>Applet using plugin tag</h1>

<jsp:plugin type="applet" code="lab7.class" height="250" width="300">

<jsp:fallback>Filed to load the Applet

</jsp:fallback>

</jsp:plugin>

</body>

</html>

lab7.java

import java.applet.Applet;

import java.awt.Color;

import java.awt.Graphics;

public class lab7 extends Applet

{

public void init()

{

setBackground(Color.green);

}

public void paint(Graphics g)

{

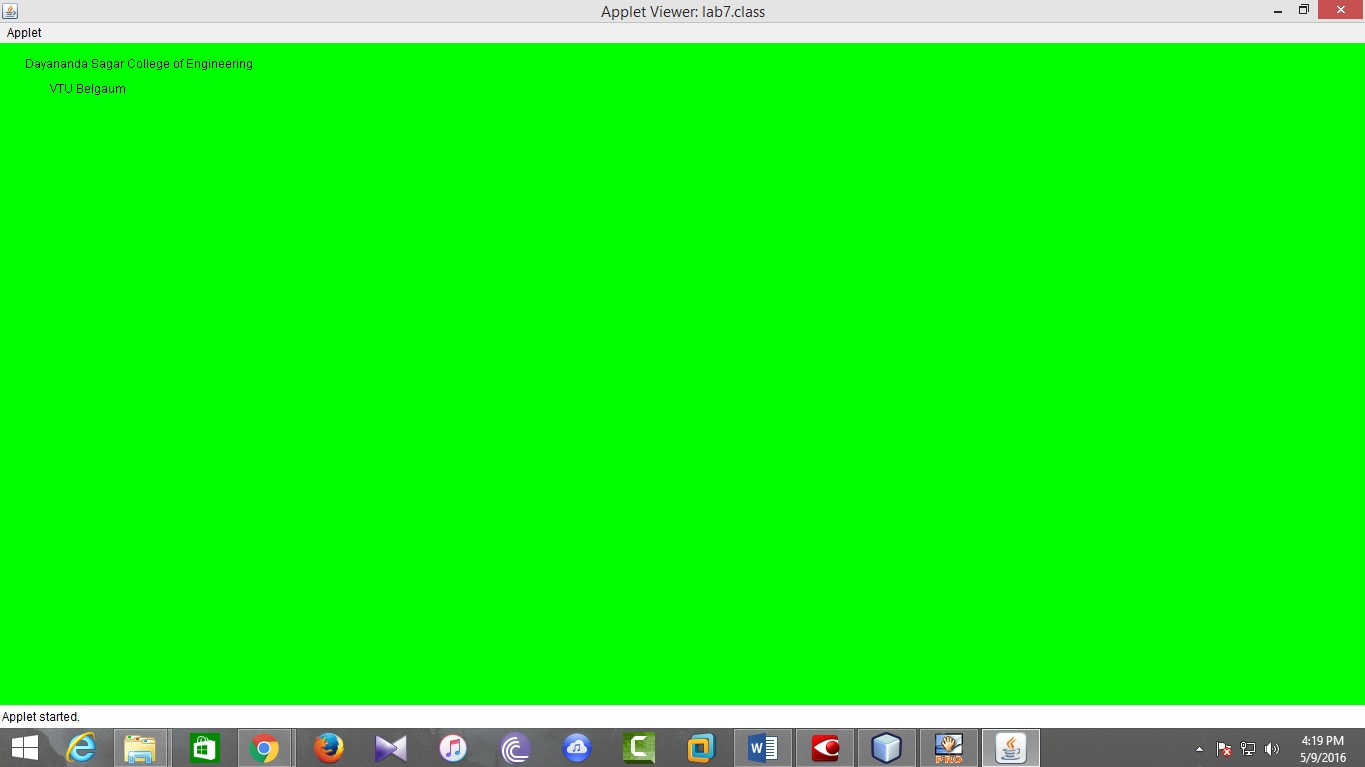
g.drawString("Dayananda Sagar College of Engineering",25,25);

g.drawString("VTU Belgaum",50,50);

}

}

Output:



1. 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.

Lab8.html

<!DOCTYPE html>

<html>

<body>

<center><br/><br/>

<form action="Lab8.jsp" method="post">

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

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

Enter Branch: <input type="text" name="branch"/><br/><br/>

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

</form>

</center>

</body>

</html>

Lab8.jsp

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

<!DOCTYPE html>

<html>

<body>

<jsp:useBean id="student" scope="request" class="Test.StudentBean"/>

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

<center> <b>STUDENT DETAILS</b><br/>

Name:<jsp:getProperty name="student" property="sname"/> <br/>

USN :<jsp:getProperty name="student" property="usnno"/><br/>

Branch: <%out.print(student.getbranch());%>

</body>

</html>

studentBean.java

package Test;

import java.beans.\*;

import java.io.Serializable;

public class StudentBean implements Serializable {

String sname, usnno, branch;

public void setsname(String s)

{

sname=s;

}

public String getsname()

{

return sname;

}

public void setusnno(String u)

{

usnno=u;

}

public String getusnno()

{

return usnno;

}

public void setbranch(String b)

{

branch=b;

}

public String getbranch()

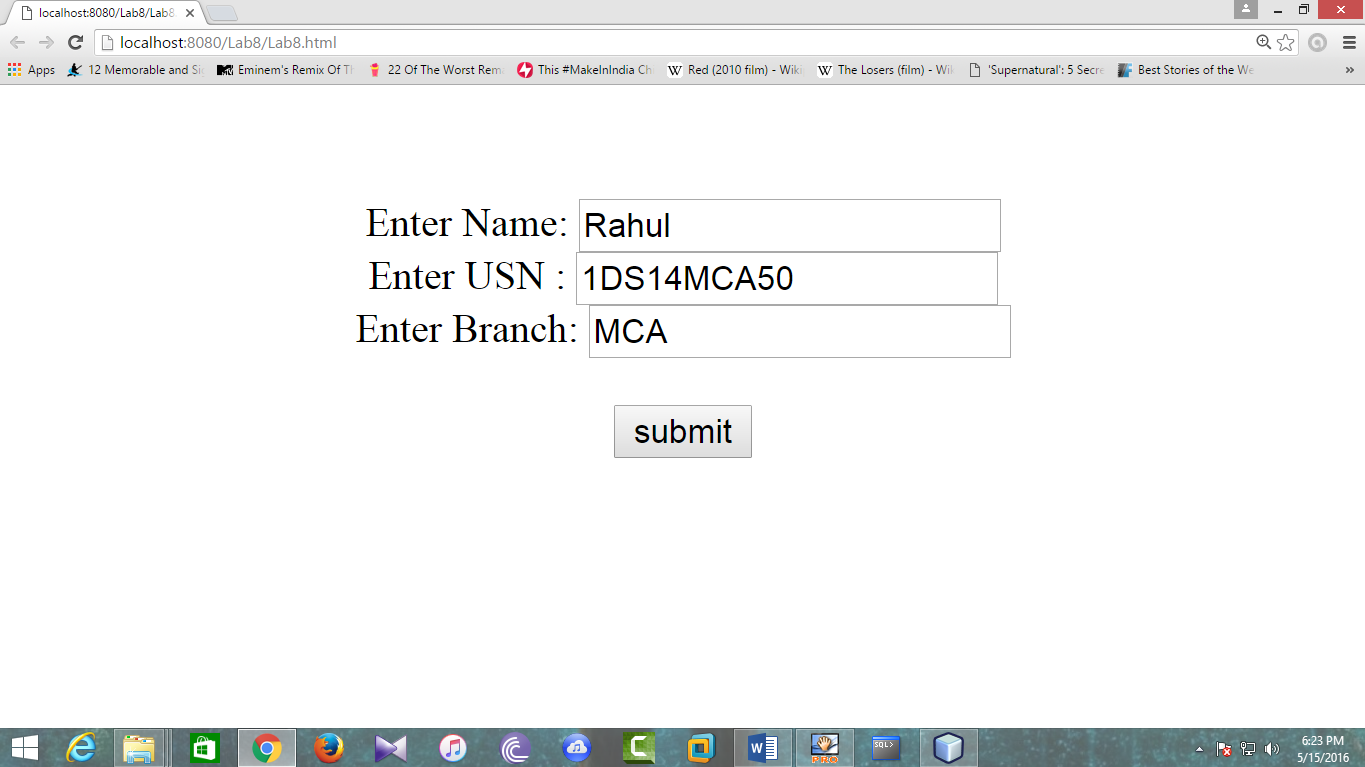
{

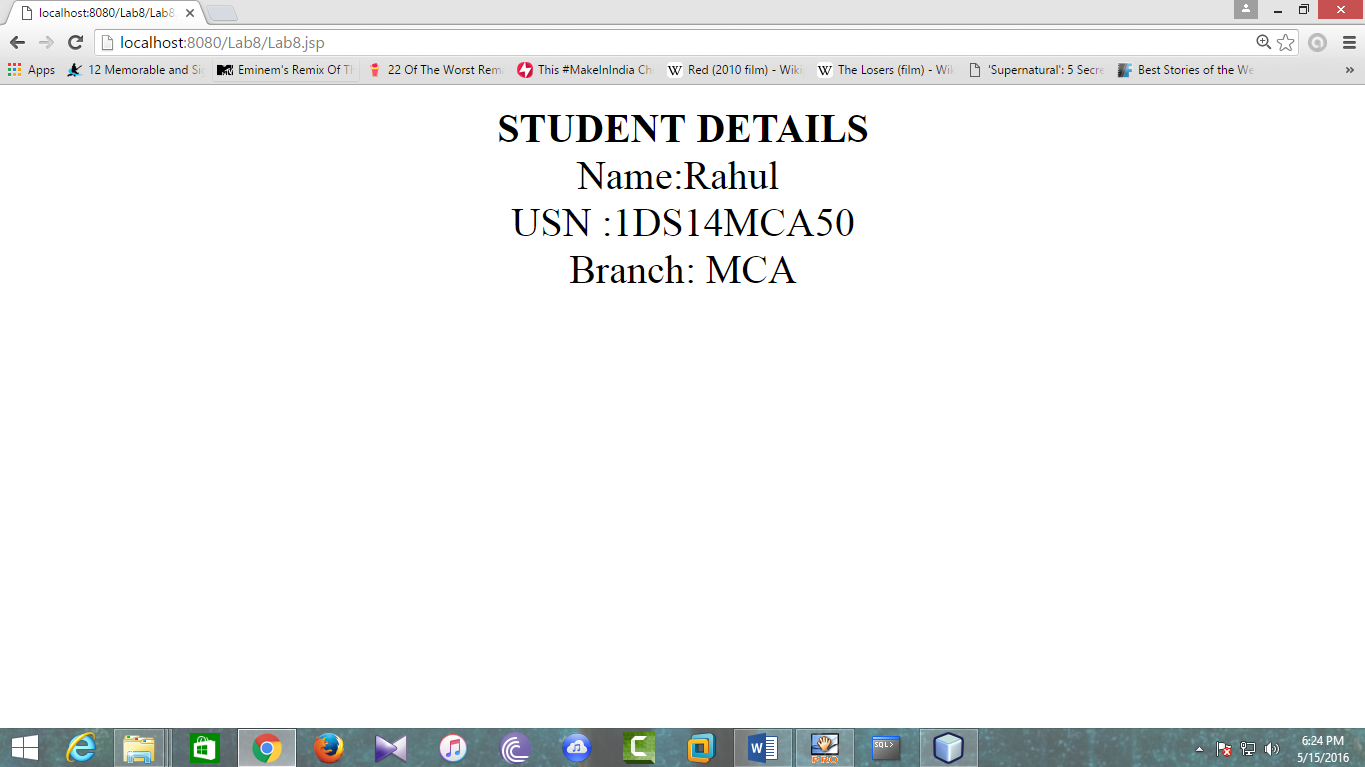
return branch;

}

}

Output:





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

Student.java

package jdbc;

import java.sql.\*;

import java.util.Scanner;

public class Student

{

Connection con;

public void establishConnection()throws ClassNotFoundException, SQLException

{

try

{

Class.forName("oracle.jdbc.driver.OracleDriver");

con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe","SYSTEM","tiger");

}

catch(ClassNotFoundException e)

{

System.err.println("Driver class not found");

}

catch(SQLException e)

{

System.err.println("Driver class not found");

}

}

public void sInsert(String usn, String name, String dept)

throws ClassNotFoundException, SQLException

{

PreparedStatement pst=null;

establishConnection();

try

{

if(con!=null)

{

pst=con.prepareStatement("insert into student values(?,?,?)");

pst.setString(1,usn);

pst.setString(2,name);

pst.setString(3,dept);

int i=pst.executeUpdate();

if(i==1)

{

System.out.println("Record inserted successfully");

}

}

}

catch(SQLException e)

{

System.err.println(e.getMessage());

}

finally

{

pst.close();

con.close();

}

}

public void sSelect(String usn) throws ClassNotFoundException, SQLException

{

PreparedStatement pst=null;

ResultSet res;

establishConnection();

try

{

if(con!=null)

{

pst=con.prepareStatement("select \* from student where usn=?");

pst.setString(1, usn);

res=pst.executeQuery();

if(res.next())

{

System.out.println("USN= "+res.getString(1)+"\tName="+ res.getString(2)+ "\tDepartment= "+res.getString(3));

}

}

}

catch(SQLException e)

{

System.err.println(e.getMessage());

}

finally

{

pst.close();

con.close();

}

}

public void sUpdate(String usn, String name, String dept) throws ClassNotFoundException,

SQLException

{

PreparedStatement pst=null;

establishConnection();

try

{

if(con!=null)

{

pst=con.prepareStatement("update student set usn=?,name=? where dept=?");

pst.setString(1,usn);

pst.setString(2,name);

pst.setString(3,dept);

int i=pst.executeUpdate();

if(i==1)

{

System.out.println("Record updated successfully");

}

}

}

catch(SQLException e)

{

System.err.println(e.getMessage());

}

finally

{

pst.close();

con.close();

}

}

public void sDelete(String usn)throws ClassNotFoundException, SQLException

{

PreparedStatement pst=null;

establishConnection();

try

{

if(con!=null)

{

pst=con.prepareStatement("delete from student where usn=?");

pst.setString(1, usn);

int i=pst.executeUpdate();

if(i==1)

{

System.out.println("Record deleted successfully");

}

}

}

catch(SQLException e)

{

System.err.println(e.getMessage());

}

finally

{

pst.close();

con.close();

}

}

public void viewAll( )throws ClassNotFoundException, SQLException

{

PreparedStatement pst=null;

ResultSet res;

establishConnection();

try

{

if(con!=null)

{

pst=con.prepareStatement("select \* from student");

res=pst.executeQuery();

while(res.next())

{

System.out.println("USN= "+res.getString(1)+"\tName="+res.getString(2)+"\tDepartment= "+res.getString(3));

}

}

}

catch(SQLException e)

{

System.err.println(e.getMessage());

}

finally

{

pst.close();

con.close();

}

}

public static void main(String[] a) throws ClassNotFoundException, SQLException

{

Student std=new Student();

String usn,name,dept;

Scanner sc=new Scanner(System.in);

while(true)

{

System.out.println("Operations on Student table");

System.out.println("1.Insert\n2.Select\n3.Update\n4.Delete\n5.View All\n6.Exit");

System.out.println("select the operation");

switch(sc.nextInt())

{

case 1: System.out.println("Enter USN to insert");

usn=sc.next();

System.out.println("Enter Name to insert");

name=sc.next();

System.out.println("Enter Deaprtment to insert");

dept=sc.next();

std.sInsert(usn, name, dept);

break;

case 2: System.out.println("Enter USN to select");

usn=sc.next();

std.sSelect(usn);

break;

case 3: System.out.println("Enter USN to update");

usn=sc.next();

System.out.println("Enter Name to update");

name=sc.next();

System.out.println("Enter department to update");

dept=sc.next();

std.sUpdate(usn, name, dept);

break;

case 4: System.out.println("Enter USN to delete");

usn=sc.next();

std.sDelete(usn);

break;

case 5: std.viewAll();

break;

case 6: System.exit(0);

default: System.out.println("Invalid operation");

break;

}

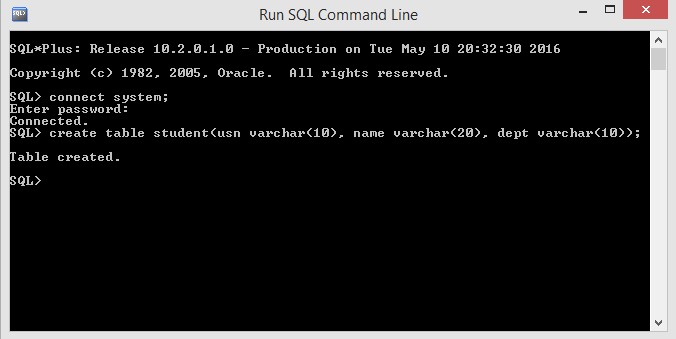
}

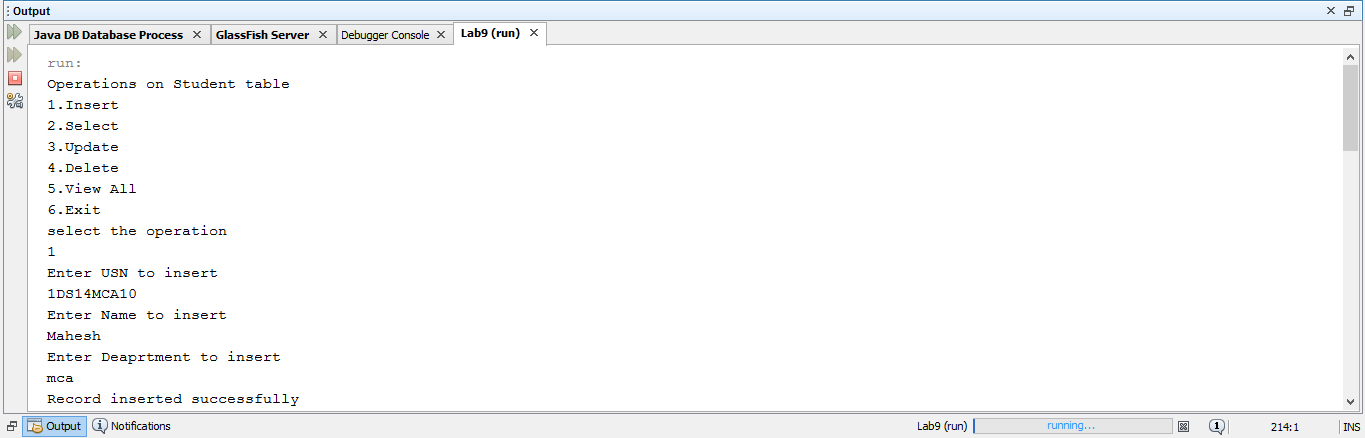
}

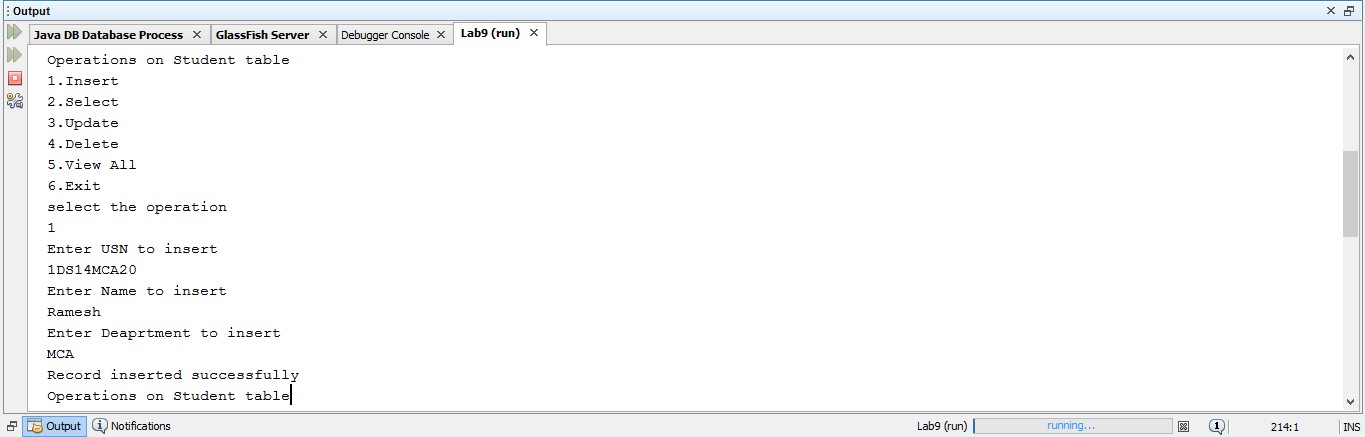
}

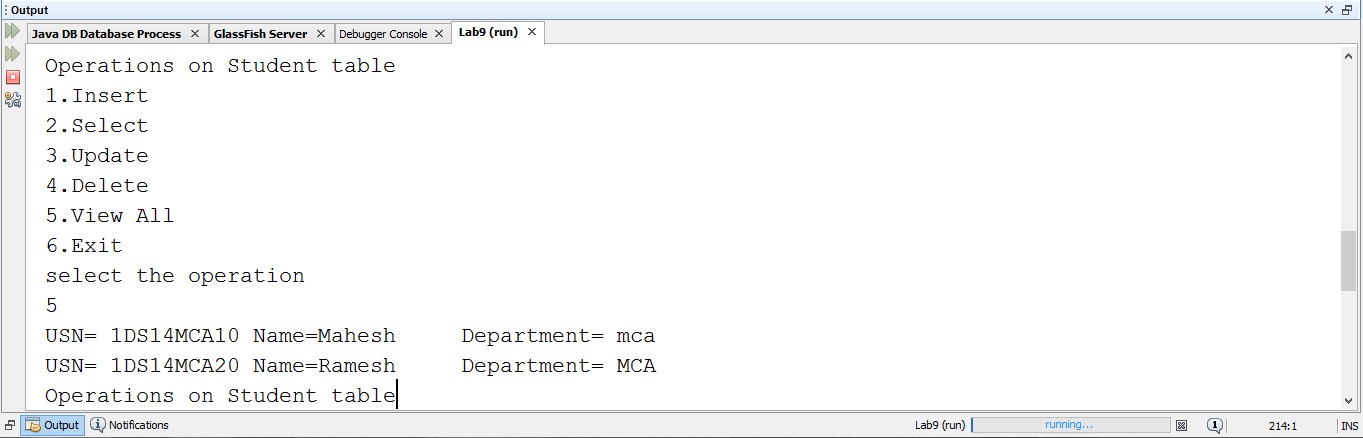
Output:

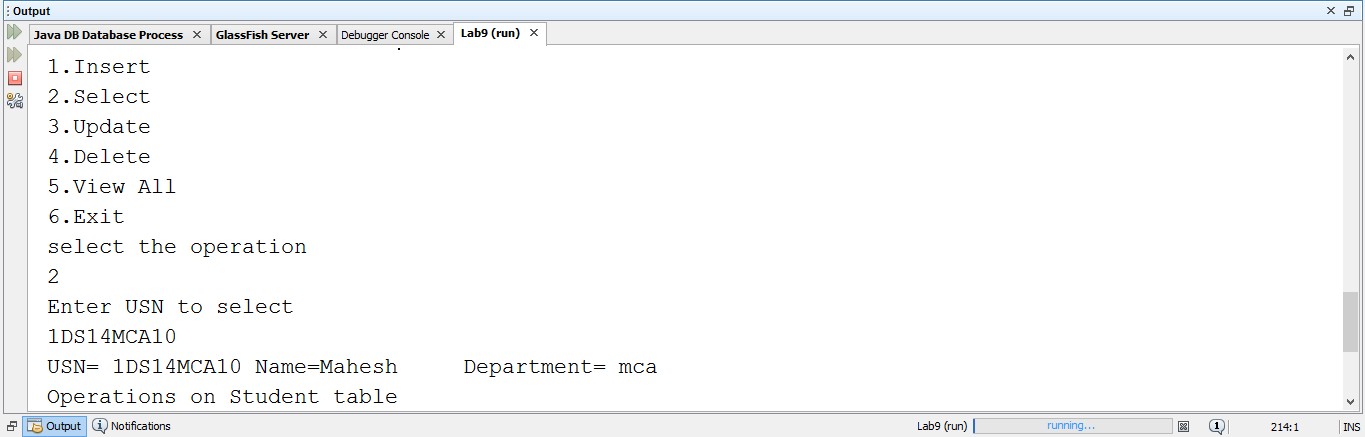
Right click libraries 🡪 Add JAR/FOLDER 🡪 C:\oraclexe\app\oracle\product\10.2.0\server\jdbc\lib\ojdbc14

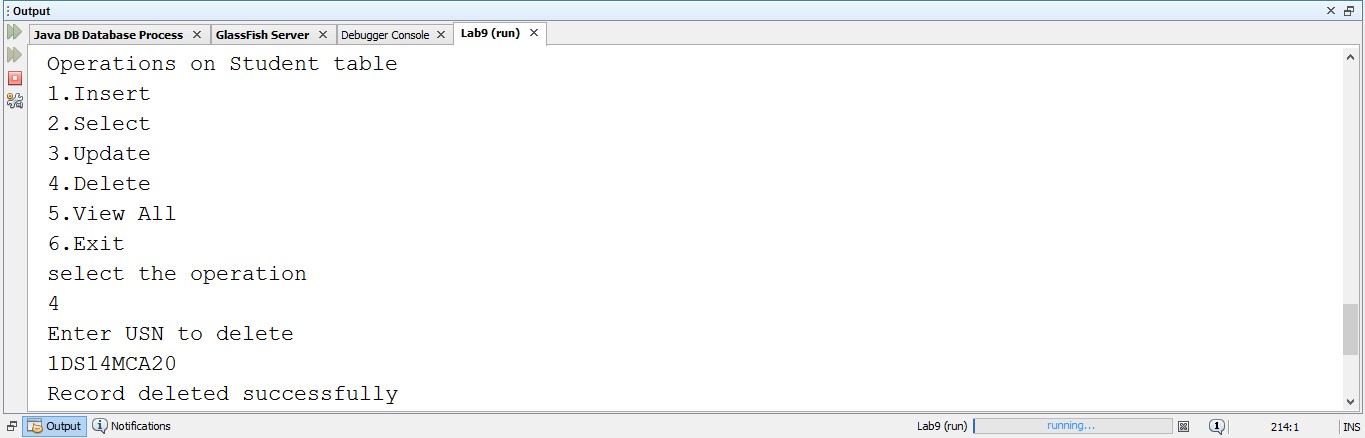


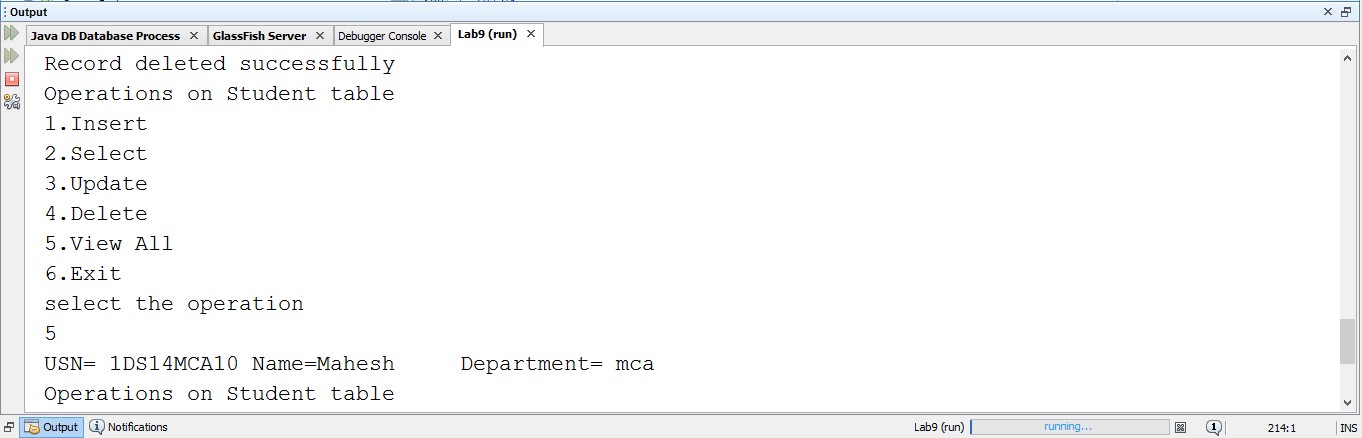


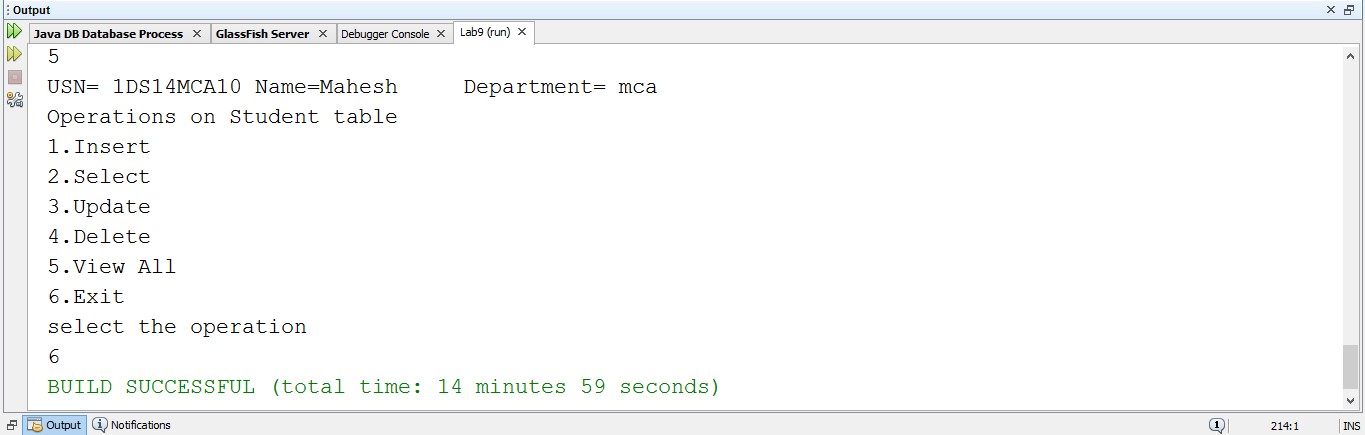












1. Write a JSP program to implement all the attributes of page directive tag.

index.html

<!DOCTYPE html>

<html>

<head><title>To do supply a title</title></head>

<body>

<h2>Read two value to divide</h2>

<form action="Lab10.jsp">

Enter Second Value:

<input type="text" name="val1"/><br>

Enter Second value:

<input type="text" name="val2"/><br>

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

</form>

</body>

</html>

Lab10.jsp

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

contentType="application/msword" pageEncoding="UTF-8"

session="true" buffer="16kb" autoFlush="true"

isThreadSafe="false"

isELIgnored="true"

extends="org.apache.jasper.runtime.HttpJspBase"

info="Lab10:demo of all page directive"

language="java"

errorPage="showError.jsp"%>

<!DOCTYPE html>

<html>

<head>

<title>JSP page</title>

</head>

<%! int a,b;

Date d=new Date();%>

<body>

<h2>Welcome!Today is <%=d.getDate()%></h2>

<%

String str1=request.getParameter("val1");

String str2=request.getParameter("val2");

a=Integer.parseInt(str1);

b=Integer.parseInt(str2);%>

<h2>Using Expression Language</h2>

A= <%=a %><br>

B= <%=b %><br>

<h3>Result: <%=a / b%></h3>

</body>

</html>

showError.jsp

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

<!DOCTYPE html>

<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">

<title>JSP Page</title>

</head>

<body>

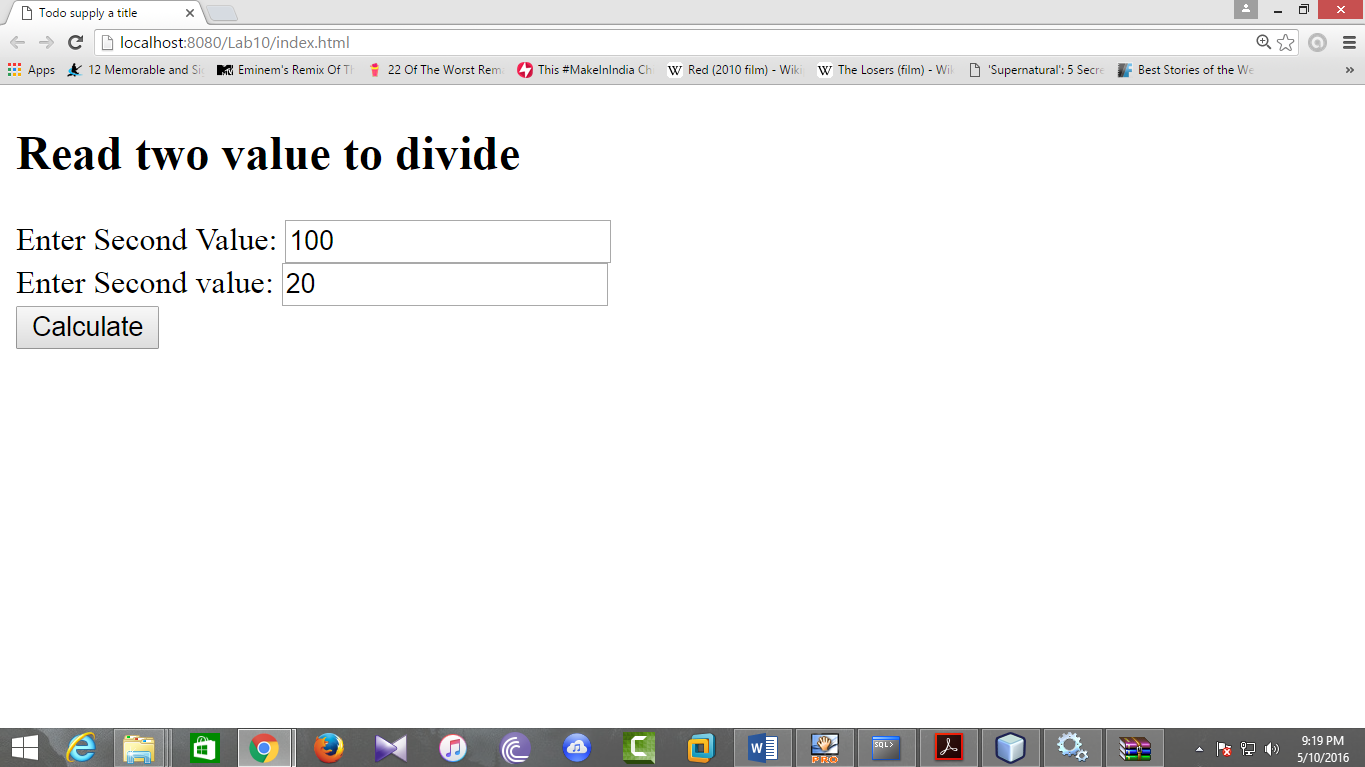
<h3>sorry an exception occured!</h3>

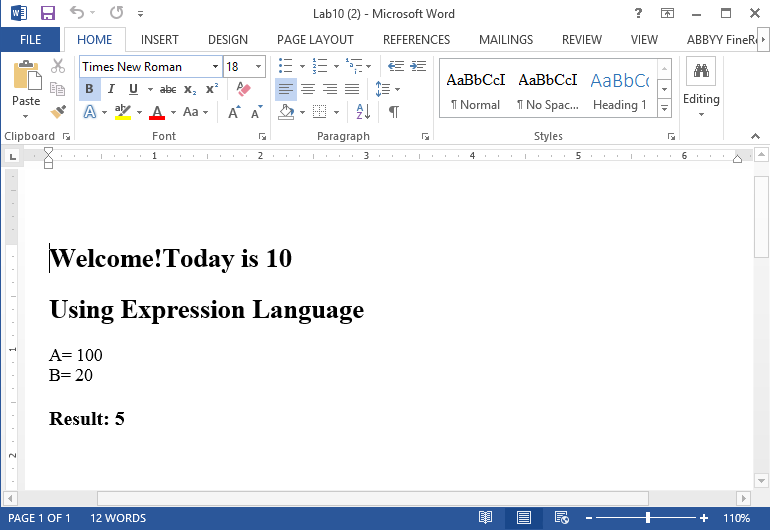
<h2>The expression is: <%=exception %></h2>

</body>

</html>

Output:





1. An EJB application that demonstrates Session Bean (with appropriate business logic).

Lab11SessionBean.java

package lab11;

import javax.ejb.Stateless;

@Stateless

public class LAB11SessionBean implements LAB11SessionBeanRemote, LAB11SessionBeanLocal {

@Override

public double FindSquare(double n) {

return (n\*n);

}

Index.html

<html>

<head>

<title>TODO supply a title</title>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

</head>

<body>

<form action="lab11">

Enter a number: <input type="text" name="num"/>

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

</form>

</body>

</html>

Lab11.java

package lab11;

import java.io.IOException;

import java.io.PrintWriter;

import javax.ejb.EJB;

import javax.servlet.ServletException;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

public class lab11 extends HttpServlet {

@EJB

private LAB11SessionBeanLocal lAB11SessionBean;

protected void processRequest(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html;charset=UTF-8");

try (PrintWriter out = response.getWriter()) {

/\* TODO output your page here. You may use following sample code. \*/

out.println("<!DOCTYPE html>");

out.println("<html>");

out.println("<head>");

out.println("<title>Servlet lab11</title>");

out.println("</head>");

out.println("<body>");

double input,output;

input = Double.parseDouble(request.getParameter("num"));

output = lAB11SessionBean.FindSquare(input);

out.println("Square of "+input);

out.println(" = "+output);

out.println("</body>");

out.println("</html>");

}

}

@Override

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

processRequest(request, response);

}

@Override

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

processRequest(request, response);

}

@Override

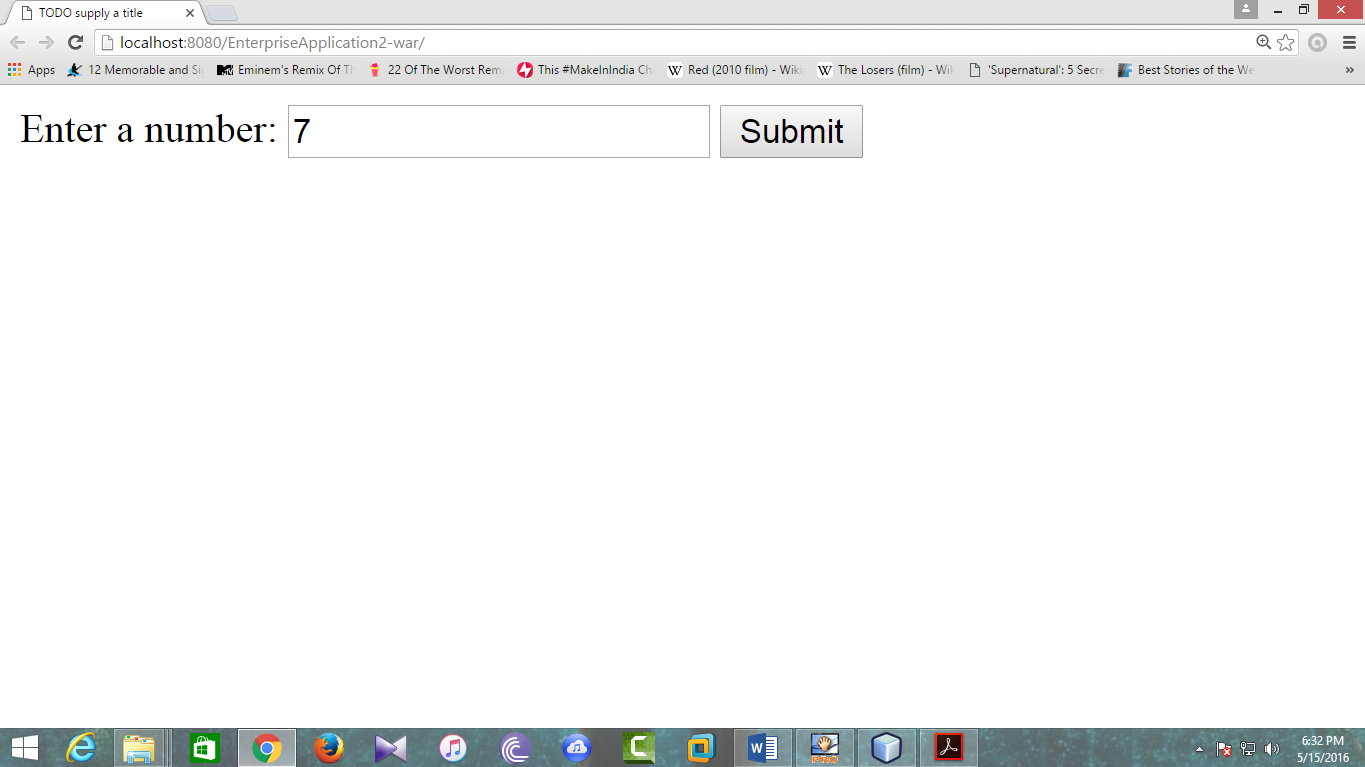
public String getServletInfo() {

return "Short description";

}

}

Output:





1. An EJB application that demonstrates MDB (with appropriate business logic).

Mymdb.java (Message-Driven Bean)

package mdb;

import java.util.logging.Level;

import java.util.logging.Logger;

import javax.ejb.ActivationConfigProperty;

import javax.ejb.MessageDriven;

import javax.jms.JMSException;

import javax.jms.Message;

import javax.jms.MessageListener;

import javax.jms.TextMessage;

@MessageDriven(mappedName = "jms/dest", activationConfig = {

@ActivationConfigProperty(propertyName = "acknowledgeMode", propertyValue = "Autoacknowledge"),

@ActivationConfigProperty(propertyName = "destinationType", propertyValue =

"javax.jms.Queue") })

public class Mymdb implements MessageListener

{

public Mymdb()

{

}

@Override

public void onMessage(Message message)

{

TextMessage tmsg=null;

tmsg=(TextMessage)message;

try

{

System.out.println(tmsg.getText());

}

catch (JMSException ex)

{

Logger.getLogger(Mymdb.class.getName()).log(Level.SEVERE, null, ex);

}

}

}

Index.jsp

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

<!DOCTYPE html>

<html>

<head>

<title>JSP Page</title></head>

<body>

<form action="mdbServlet" method="post">

Message: <input typ="text" name="message" size="100"/><br/>

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

</form>

</body>

</html>

mdbServlet.java

package servlet;

import java.io.IOException;

import java.io.PrintWriter;

import java.util.logging.Level;

import java.util.logging.Logger;

import javax.annotation.Resource;

import javax.jms.\*;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

public class mdbServlet extends HttpServlet

{

@Resource(mappedName = "jms/dest1")

private Queue dest1;

@Resource(mappedName = "jms/queue1")

private ConnectionFactory queue1;

@Override

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException

{

String msg;

msg=request.getParameter("message");

PrintWriter pw=response.getWriter();

response.setContentType("text/html");

try

{

sendJMSMessageToDest1(msg);

}

catch (JMSException ex)

{

Logger.getLogger(mdbServlet.class.getName()).log(Level.SEVERE, null, ex);

}

pw.println("<h3>Message sent</h3>");

pw.println("<h4>Please check your server log !</h4>");

}

private void sendJMSMessageToDest1(Object messageData) throws JMSException {

Connection connection = null;

Session session = null;

try {

connection = queue1.createConnection();

session = connection.createSession(false, Session.AUTO\_ACKNOWLEDGE);

MessageProducer messageProducer = session.createProducer(dest1);

messageProducer.send(createJMSMessageForjmsDest1(session, messageData));

}

finally {

if (session != null) {

try {

session.close();

}

catch (JMSException e) {

Logger.getLogger(this.getClass().getName()).log(Level.WARNING, "Cannot close

session", e);

}

}

if (connection != null)

{

connection.close();

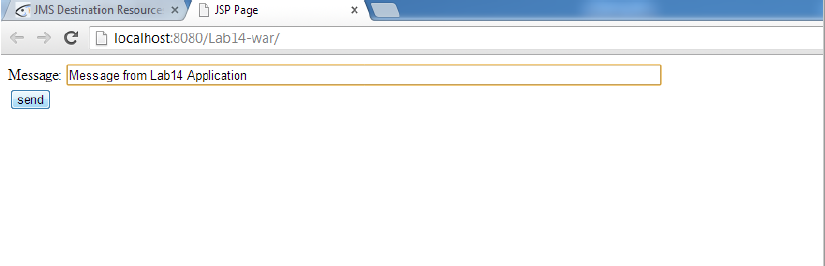
}

}

}

}

Output:





1. An EJB application that demonstrates persistence (with appropriate business logic).

Lab13.java

package lab13

import java.io.Serializable;

import javax.persistence.Entity;

import javax.persistence.GeneratedValue;

import javax.persistence.GenerationType;

import javax.persistence.Id;

@Entity

public class lab13 implements Serializable {

private static final long serialVersionUID = 1L;

@Id

@GeneratedValue(strategy = GenerationType.IDENTITY)

private Long id;

String name;

public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

public int getSalary() {

return salary;

}

public void setSalary(int salary) {

this.salary = salary;

}

int salary;

public Long getId() {

return id;

}

public void setId(Long id) {

this.id = id;

}

@Override

public int hashCode() {

int hash = 0;

hash += (id != null ? id.hashCode() : 0);

return hash;

}

@Override

public boolean equals(Object object) {

if (!(object instanceof lab13)) {

return false;

}

lab13 other = (lab13) object;

if ((this.id == null && other.id != null) || (this.id != null && !this.id.equals(other.id))) {

return false;

}

return true;

}

@Override

public String toString() {

return "lab13.lab13[ id=" + id + " ]";

}

}

Index.jsp

<html>

<head><title>JSP Page</title> </head>

<body>

<form action="NewServlet">

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

Salary:<input type="text" name="salary"/><br>

<input type="submit" name="submit"/>

</form>

</body>

</html>

NewServlet.java

public class NewServlet extends HttpServlet {

@EJB

private lab13FacadeLocal lab13Facade;

protected void processRequest(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html;charset=UTF-8");

try (PrintWriter out = response.getWriter()) {

out.println("<!DOCTYPE html>");

out.println("<html>");

out.println("<head>");

out.println("<title>Servlet NewServlet</title>");

out.println("</head>");

out.println("<body>");

lab13 bn = new lab13();

bn.setName(request.getParameter("name"));

bn.setSalary(Integer.parseInt(request.getParameter("salary")));

lab13Facade.create(bn);

out.println("Table Created!!!");

out.println("</body>");

out.println("</html>");

}

}

@Override

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

processRequest(request, response);

}

@Override

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

processRequest(request, response);

}

@Override

public String getServletInfo() {

return "Short description";

}

}

OUTPUT:

