**SERVLET ASSIGNMENT**

**19.** Create a servlet that prints WELCOME TO SERVLET WORLD using html's heading tag.

**package** servassignments;

**import** java.io.IOException;

**import** java.io.PrintWriter;

**import** javax.servlet.ServletException;

**import** javax.servlet.annotation.WebServlet;

**import** javax.servlet.http.HttpServlet;

**import** javax.servlet.http.HttpServletRequest;

**import** javax.servlet.http.HttpServletResponse;

**import** org.apache.jasper.tagplugins.jstl.core.Out;

@WebServlet("/HelloServlet")

**public** **class** HelloServlet **extends** HttpServlet {

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

{

response.setContentType("text/html");

PrintWriter out = response.getWriter();

out.print("<h1>WELCOME TO SERVLET WORLD</h1>");

out.flush();

out.close();

}

}

**20.** Create a servlet that displays system date in the dd/mm/yyyy format.

**package** servassignments;

**import** java.io.IOException;

**import** java.io.PrintWriter;

**import** java.sql.Date;

**import** javax.servlet.ServletException;

**import** javax.servlet.annotation.WebServlet;

**import** javax.servlet.http.HttpServlet;

**import** javax.servlet.http.HttpServletRequest;

**import** javax.servlet.http.HttpServletResponse;

@WebServlet("/Quetion2")

**public** **class** Quetion2 **extends** HttpServlet {

**private** **static** **final** **long** ***serialVersionUID*** = 1L;

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

{

response.setContentType("text/html");

PrintWriter out = response.getWriter();

Date date = **new** Date(0);

out.print("<h1>date is </h1>"+date.toString());

out.flush();

out.close();

}

}

**21.** Create a servlet that prints following error message using red color font.“CREATING GUI IS COMPLEX USING SERVLET”.

**package** servassignments;

**import** java.io.IOException;

**import** java.io.PrintWriter;

**import** javax.servlet.ServletException;

**import** javax.servlet.annotation.WebServlet;

**import** javax.servlet.http.HttpServlet;

**import** javax.servlet.http.HttpServletRequest;

**import** javax.servlet.http.HttpServletResponse;

@WebServlet("/Quetion3")

**public** **class** Quetion3 **extends** HttpServlet {

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

{

response.setContentType("text/html");

PrintWriter out = response.getWriter();

out.print("<h1 style='color:red'>CREATING GUI IS COMPLEX USING SERVLET”.</h1>");

out.flush();

out.close();

}

}

**22.** Create an html page having two buttons first labeled with GET REQUEST DEMO and second with POST REQUEST DEMO. Create a Servlet that overrides both doGet and doPost methods. After clicking first button doGet method should be called that prints “YOU SELECTED GET TYPE REQUEST”. After clicking second button doPost method should be called that prints “YOU SELECTED POST TYPE REQUEST”.

//post servlet

package myservlett;

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

/\*\*

\* Servlet implementation class Postserv

\*/

@WebServlet("/Postserv")

public class Postserv extends HttpServlet {

private static final long serialVersionUID = 1L;

/\*\*

\* @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)

\*/

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

resp.setContentType("text/plain");

PrintWriter out = resp.getWriter();

out.print("Hello from getservlet");

out.flush();

out.close();

}

}

//Get servlet

**package** servassignments;

**import** java.io.IOException;

**import** java.io.PrintWriter;

**import** javax.servlet.ServletException;

**import** javax.servlet.annotation.WebServlet;

**import** javax.servlet.http.HttpServlet;

**import** javax.servlet.http.HttpServletRequest;

**import** javax.servlet.http.HttpServletResponse;

@WebServlet("/Quetion4\_1")

**public** **class** Quetion4\_1 **extends** HttpServlet {

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

{

response.setContentType("text/html");

PrintWriter out = response.getWriter();

out.print("<h1>YOU SELECTED POST TYPE REQUEST</h1>");

out.flush();

out.close();

}

}

//HTML file

<!DOCTYPE html>

<html>

<head>

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

<title>getpost</title>

</head>

<body>

<form action=*"Quetion4"*>

<input type=*"submit"* method=*"get"* value=*"Get Method"*>

</form>

<form action=*"Quetion4\_1"*>

<input type=*"submit"* method=*"post"* value=*"Post Method"*>

</form>

</body>

</html>

**23.** Create an html page that has a textfield to take the user name. After submitting the page Servlet should be called that prints Welcome message with entered name like WELCOME SARJE

**package servassignments;**

**import java.io.IOException;**

**import java.io.PrintWriter;**

**import javax.servlet.ServletException;**

**import javax.servlet.annotation.WebServlet;**

**import javax.servlet.http.HttpServlet;**

**import javax.servlet.http.HttpServletRequest;**

**import javax.servlet.http.HttpServletResponse;**

**@WebServlet("/Quetion5")**

**public class Quetion5 extends HttpServlet {**

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

**{**

**String nmString =request.getParameter("uname");**

**response.setContentType("text/html");**

**PrintWriter out = response.getWriter();**

**out.print("Welcome "+nmString);**

**}**

**}**

**//html code**

<!DOCTYPE html>

<html>

<head>

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

<title>Insert title here</title>

</head>

<body>

<form action=*"Quetion5"*>

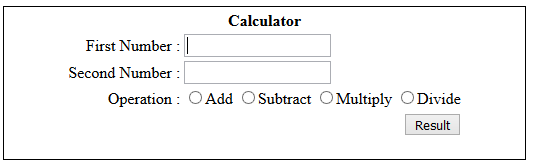
<input type=*"text"* name=*"uname"* placeholder=*"Enter your name"*>

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

</form>

</body>

</html>

****.

**24.** Create an html page Calci.html that has a GUI to take two numbers, to make choice from addition, subtraction, multiplication or division and a submit button. After submitting the form, request should be generated for ArithmeticServlet. This servlet should get two numbers entered by the user and his choice. Perform the requested operation and display the result in the same servlet.

<!DOCTYPE html>

<html>

<head>

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

<title>Insert title here</title>

</head>

<body>

<form action=*"Quetion6"*>

First Number:<input type=*"text"* name=*"firstvalue"* placeholder=*"Enter first number"*><br><br>

Second Number:<input type=*"text"* name=*"secondvalue"* placeholder=*"Enter second number"*><br><br>

<input type=*"radio"* id=*"Addition"* name=*"add"* value=*"Addition"*>

<label for=*"Addition"*>Addition</label><br>

<input type=*"radio"* id=*"Subtraction"* name=*"sub"* value=*"Subtraction"*>

<label for=*"Subtraction"*>Subtraction</label><br>

<input type=*"radio"* id=*"Division"* name=*"div"* value=*"Division"*>

<label for=*"Division"*>Division</label><br>

<input type=*"radio"* id =*"Multiplication"* name=*"mul"* value=*"Multiplication"*>

<label for=*"Multiplication"*>Multiplication</label><br><br>

<input type=*"submit"* name=*"res"* value=*"Result"*><br>

</form>

</body>

</html>

**package** servassignments;

**import** java.io.IOException;

**import** java.io.PrintWriter;

**import** javax.servlet.ServletException;

**import** javax.servlet.annotation.WebServlet;

**import** javax.servlet.http.HttpServlet;

**import** javax.servlet.http.HttpServletRequest;

**import** javax.servlet.http.HttpServletResponse;

@WebServlet("/Quetion6")

**public** **class** Quetion6 **extends** HttpServlet {

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

{

response.setContentType("text/html");

PrintWriter out = response.getWriter();

**int** a1 = Integer.*parseInt*(request.getParameter("firstvalue"));

**int** a2 = Integer.*parseInt*(request.getParameter("secondvalue"));

**if**(request.getParameter("add") != **null**)

{

out.println("<h1> Addition is:</h1>"+(a1+a2));

}

**if**(request.getParameter("sub") != **null**)

{

out.println("<h1>Substraction is:</h1>" +(a1-a2));

}

**if**(request.getParameter("div") != **null**)

{

out.println("<h1>Division is:</h1>" +(a1/a2));

}

**if**(request.getParameter("mul") != **null**)

{

out.println("<h1>Multiplication is:</h1>" +(a1\*a2));

}

}

}

**25.** Create an html page to take the name. Take this entered user name on a servlet. Create another servlet that prints the name taken by the first servlet.

//First Servlet

package servassignments;

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.RequestDispatcher;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

@WebServlet("/Quetion7\_1")

public class Quetion7\_1 extends HttpServlet {

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

RequestDispatcher rDispatcher = request.getRequestDispatcher("Quetion7\_2");

rDispatcher.forward(request, response);

}

}

//second Servlet

package servassignments;

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

@WebServlet("/Quetion7\_2")

public class Quetion7\_2 extends HttpServlet {

private static final long serialVersionUID = 1L;

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

response.setContentType("text/html");

PrintWriter out = response.getWriter();

String nmString = request.getParameter("uname");

out.print("<h1>from second servlet</h1>");

out.print("<h1>Name : "+nmString+"</h1>");

out.flush();

out.close();

}

}

Html code

<!DOCTYPE html>

<html>

<head>

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

<title>Insert title here</title>

</head>

<body>

<form action=*"Quetion7\_1"*>

<input type=*"text"* placeholder=*"Enter your name"* name=*"uname"*>

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

</form>

</body>

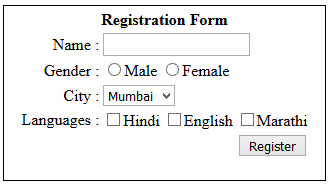
</html>

**26.** Create a Servlet that prints number of visits by a particular user.

**27.** Create a Servlet that prints the *real* path corresponding to the given *virtual* path.

**28.** Do context parameter entry in web.xml file for jdbc information like jdbc driver class name, url, username, password. Create one servlet that reads these context parameter values from web.xml file and prints them.

**29.** Create a Servlet that prints header information like host (server/domain), user-agent (web browser), mime type in the separate lines.

**30.** Create a Servlet named RegistraionFormServlet that has GUI for registration form to take information like name (textfield), gender(radio button), city(combobox), languages (checkbox) and submit button.

After submitting this form request should go to RegistraionServlet. This servlet should check if all the information are filled. If filled then response should be a success message otherwise response should be redirected to the RegistraionFormServlet to complete the information. Make sure the previously entered information are retained.

**package** servassignments;

**import** java.io.IOException;

**import** java.io.PrintWriter;

**import** java.sql.DriverManager;

**import** java.sql.PreparedStatement;

**import** java.sql.SQLException;

**import** java.sql.Connection;

**import** javax.servlet.RequestDispatcher;

**import** javax.servlet.ServletException;

**import** javax.servlet.annotation.WebServlet;

**import** javax.servlet.http.HttpServlet;

**import** javax.servlet.http.HttpServletRequest;

**import** javax.servlet.http.HttpServletResponse;

//import com.sun.corba.se.pept.transport.Connection;

@WebServlet("/Quetion\_7")

**public** **class** Quetion\_7 **extends** HttpServlet {

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

{

String unm = request.getParameter("userName");

String upass = request.getParameter("userPass");

String uemail = request.getParameter("userEmail");

String ucountry = request.getParameter("userCountry");

**try** {

Class.*forName*("com.mysql.jdbc.Driver");

Connection con = DriverManager.*getConnection*

("jdbc:mysql://localhost:3306/ashwini", "root", "momslove");

PreparedStatement statement = con.prepareStatement("insert into register values(?,?,?,?)");

statement.setString(1, unm);

statement.setString(2, upass);

statement.setString(3, uemail);

statement.setString(4, ucountry);

**int** i = statement.executeUpdate();

con.close();

}**catch** (ClassNotFoundException e) {

e.printStackTrace();

} **catch** (SQLException e) {

e.printStackTrace();

}

RequestDispatcher eDispatcher = request.getRequestDispatcher("Quetion7\_7");

eDispatcher.forward(request, response);

}

}

//second servlet

**package** servassignments;

**import** java.io.IOException;

**import** java.io.PrintWriter;

**import** javax.servlet.ServletException;

**import** javax.servlet.annotation.WebServlet;

**import** javax.servlet.http.HttpServlet;

**import** javax.servlet.http.HttpServletRequest;

**import** javax.servlet.http.HttpServletResponse;

@WebServlet("/Quetion7\_7")

**public** **class** Quetion7\_7 **extends** HttpServlet {

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

{

}

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

{

response.setContentType("text/html");

PrintWriter out = response.getWriter();

String unm = request.getParameter("userName");

String upass = request.getParameter("userPass");

String uemail = request.getParameter("userEmail");

String ucountry = request.getParameter("userCountry");

out.println("<h1>User name is "+unm+ "</h1>");

out.println("User name is "+upass);

out.println("User name is "+ uemail);

out.println("User name is "+ucountry);

}

}

//html code

<html>

<body>

<form action=*"Quetion\_7"* method=*"post"*>

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

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

Email Id:<input type=*"text"* name=*"userEmail"*/><br/><br/>

Country:

<select name=*"userCountry"*>

<option>India</option>

<option>Austrelia</option>

<option>other</option>

</select>

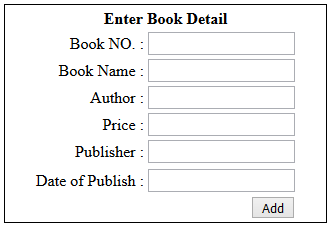
<br/><br/>

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

</form>

</body>

</html>

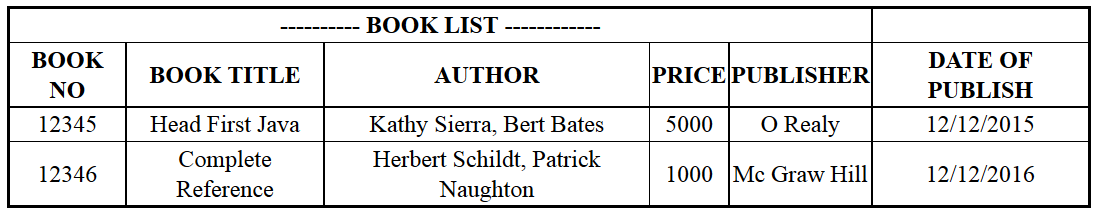
**31.** Create an html page book\_form.html that has a GUI to take book information like book no., book title, author name, publisher name, year of publish and a submit button.

After submitting the form, request should be generated for AddServlet. This servlet should get all book information entered by the user and this information should be stored in the data base table named book. This Servlet should have one link BOOK LIST. When this link is clicked request should be generated for BookListServlet. This servlet should display all book record present in the book database table.

**32.** Create a program to manage GuestBook having properties guestId, guestName, date and message.

a) Create a GuestbookServlet that is mapped to guestbook to display the current guestbook messages.

b) Add a form at the bottom allowing users to submit a new guestbook message. Like below



//html code

<!DOCTYPE html>

<html>

<head>

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

<title>Insert title here</title>

</head>

<body>

<form action=*"Quetion32"* method=*"post"*>

<input type=*"text"* name=*"bname"* placeholder=*"Enter Book name"*><br>

<input type=*"text"* name=*"btitle"* placeholder=*"Enter Book Title"*><br>

<input type=*"text"* name=*"bauthor"* placeholder=*"Enter Book Author"*><br>

<input type=*"text"* name=*"bprice"* placeholder=*"Enter Book Price"*><br>

<input type=*"text"* name=*"bpublisher"* placeholder=*"Enter Book Publisher"*><br>

<input type=*"date"* name=*"bdate"* placeholder=*"Enter Book publishing date"*><br>

<br>

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

</form>

</body>

</html>

// servlet code

**package** servassignments;

**import** java.io.IOException;

**import** java.sql.Connection;

**import** java.sql.DriverManager;

**import** java.sql.PreparedStatement;

**import** java.sql.SQLException;

**import** javax.servlet.ServletException;

**import** javax.servlet.annotation.WebServlet;

**import** javax.servlet.http.HttpServlet;

**import** javax.servlet.http.HttpServletRequest;

**import** javax.servlet.http.HttpServletResponse;

@WebServlet("/Quetion32")

**public** **class** Quetion32 **extends** HttpServlet {

//private static final long serialVersionUID = 1L;

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

String bnm = request.getParameter("bname");

String bt = request.getParameter("btitle");

String ba = request.getParameter("bauthor");

String bp = request.getParameter("bprice");

String bpu = request.getParameter("bpublisher");

String bd = request.getParameter("bdate");

**try** {

Class.*forName*("com.mysql.jdbc.Driver");

Connection con = DriverManager.*getConnection*

("jdbc:mysql://localhost:3306/book", "root", "momslove");

PreparedStatement statement = con.prepareStatement("insert into booklist values(?,?,?,?,?,?)");

statement.setString(1, bnm);

statement.setString(2, bt);

statement.setString(3, ba);

statement.setString(4, bp);

statement.setString(5,bpu);

statement.setString(6,bd);

**int** i = statement.executeUpdate();

con.close();

}**catch** (ClassNotFoundException e) {

e.printStackTrace();

} **catch** (SQLException e) {

e.printStackTrace();

}

}

}