Practical 1

a)

Index.html

<!DOCTYPE html>

<html>

<head>

<title>Calculator App</title>

</head>

<body>

<form action ="CalculatorServlet">

Enter First Number <input type="text" name="txtN1"><br>

Enter Second Number <input type="text" name="txtN2"><br>

Select an Operation

<input type="radio" name="opr" value="+">ADDITION

<input type="radio" name="opr" value="-">SUBTRACTION

<input type="radio" name="opr" value="\*">MULTIPLY

<input type="radio" name="opr" value="/">DIVIDE

<input type="reset">

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

</form>

</body>

</html>

CalculatorServlet.java

package Mypack;

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.ServletException;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import javax.annotation.\*;

import javax.servlet.annotation.WebServlet;

@WebServlet("/CalculatorServlet")

public class CalculatorServlet extends HttpServlet {

public void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

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

PrintWriter out = response.getWriter();

out.println("<html><head><title>Servlet CalculatorServlet</title></head><body>");

double n1 = Double.parseDouble(request.getParameter("txtN1"));

double n2 = Double.parseDouble(request.getParameter("txtN2"));

double result = 0;

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

if (opr.equals("+")) {

result = n1 + n2;

}

if (opr.equals("-")) {

result = n1 - n2;

}

if (opr.equals("\*")) {

result = n1 \* n2;

}

if (opr.equals("/")) {

result = n1 / n2;

}

out.println("<h1> Result = " + result);

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

}

}

b)

Index.html

<!DOCTYPE html>

<html>

<head>

<title>Login Form</title>

</head>

<form action="LoginServlet">

Enter User ID<input type="text" name="txtId"><br>

Enter Password<input type="password" name="txtPass"><br>

<input type="reset">

<input type="submit" value=" Click to Login " >

</form>

</html>

LoginServlet.java

package MyPack;

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(name = "LoginServlet", urlPatterns = {"/LoginServlet"})

public class LoginServlet extends HttpServlet {

@Override

public void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

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

PrintWriter out = response.getWriter();

out.println("<html><head><title>Servlet LoginServlet</title></head>");

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

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

if (uname.equals("admin") && upass.equals("12345")) {

out.println("<body bgcolor=blue >");

out.println("<h1> Welcome !!! " + uname + "</h1>");

} else {

out.println("<body bgcolor=red >");

out.println("<h1> Login Fail !!! </h1>");

}

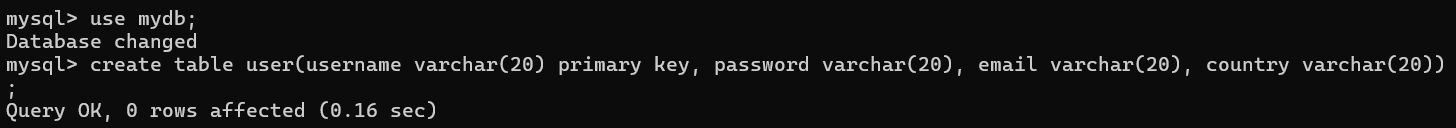
out.println("</body></html>");

}

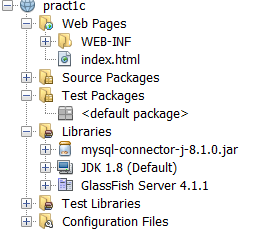
}

c)

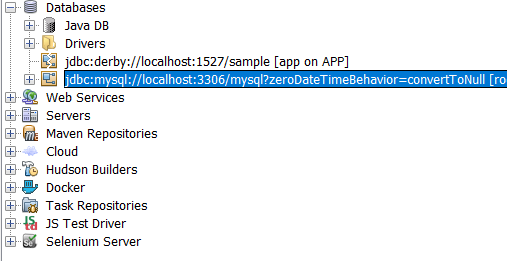
Create table in Sql



Add Dependency



Make Connection



For mysql remember this

String url = "jdbc:mysql://localhost:3306/mydb?autoReconnect=true&useSSL=false";

String username = "root";

String password = "omkar";

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

Connection con = DriverManager.getConnection(url, username, password);

Index.html

<!DOCTYPE html>

<html>

<head>

<title>Registration Page</title>

<meta charset="UTF-8">

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

</head>

<body>

<form action="RegisterServlet" >

<H1>Welcome to Registration page</H1>

Enter User Name <input type="text" name="txtUid"><br>

Enter Password <input type="password" name="txtPass"><br>

Enter Email <input type="text" name="txtEmail" ><br>

Enter Country <input type="text" name="txtCon" ><br>

<input type="reset" ><input type="submit" value="REGISTER" >

</form>

</body>

</html>

RegisterServlet.java

package MyPack;

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 java.sql.\*;

@WebServlet(name = "RegisterServlet", urlPatterns = {"/RegisterServlet"})

public class RegisterServlet extends HttpServlet {

@Override

public void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

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

PrintWriter out = response.getWriter();

String id = request.getParameter("txtUid");

String ps = request.getParameter("txtPass");

String em = request.getParameter("txtEmail");

String co = request.getParameter("txtCon");

String url = "jdbc:mysql://localhost:3306/mydb?autoReconnect=true&useSSL=false";

String username = "root";

String password = "omkar";

try {

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

Connection con = DriverManager.getConnection(url, username, password);

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

pst.setString(1, id);

pst.setString(2, ps);

pst.setString(3, em);

pst.setString(4, co);

pst.executeUpdate();

out.println("<h1> Inserted Succesfullyyyyy</h1>");

} catch (ClassNotFoundException | SQLException e) {

out.println(e);

}

}

}

Practical 2

a)

Index.html

<!DOCTYPE html>

<html><head><title>Login Form</title> </head>

<form action="LoginValidate">

Enter User ID<input type="text" name="txtld"><br>

Enter Password<input type="password" name="txtPass"><br> <input type="reset">

<input type="submit" value=" Click to Login">

</form>

</html>

LoginValidate.java

package MyPack;

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 javax.servlet.RequestDispatcher;

@WebServlet(urlPatterns = "/LoginValidate")

public class LoginValidate extends HttpServlet {

@Override

public void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

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

PrintWriter out = response.getWriter();

out.println("<html><head><title>Servlet LoginServlet</title></head>");

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

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

if (uname.equals("admin") && upass.equals("servlet")) {

RequestDispatcher rd = request.getRequestDispatcher("/WelcomeServlet");

rd.forward(request, response);

} else {

out.println("<body bgcolor=red>");

out.println("<h1> Login Fail !!! </h1>");

RequestDispatcher rd = request.getRequestDispatcher("index.html");

rd.include(request, response);

}

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

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

}

}

WelcomeServlet.java

package MyPack;

import javax.servlet.RequestDispatcher;

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(urlPatterns = "/WelcomeServlet")

public class WelcomeServlet extends HttpServlet {

public void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

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

PrintWriter out = response.getWriter();

out.println("<html>");

out.println("<head>");

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

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

out.println("<body bgcolor=orange text=blue >");

out.println("<h1>Welcome to the world of Servlet</h1>");

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

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

}

}

b)

Index.html

<!DOCTYPE html>

<html>

<head>

<title>Cookie Demo</title>

<meta charset="UTF-8">

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

</head>

<body>

<form action="Page1">

Enter your name <input type="text" name="txtName"><br>

<input type="submit" value="~~~Click to Enter~~~">

</form>

</body>

</html>

Page1.java

package MyPack;

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 javax.servlet.http.Cookie;

@WebServlet(name = "Page1", urlPatterns = {"/Page1"})

public class Page1 extends HttpServlet {

public void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

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

PrintWriter out = response.getWriter();

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

out.println("<html>");

out.println("<head>");

out.println("<title>Page1</title>");

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

out.println("<body bgcolor=pink text=blue>");

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

out.println("<h1>Welcome " + uname + "</h>");

Cookie ck1 = new Cookie("Username", uname);

Cookie ck2 = new Cookie("visit", "1");

response.addCookie(ck1);

response.addCookie(ck2);

out.println("<h1><a href=Page2>Click to visit Page 2</a>"

+ ",/h1>");

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

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

}

}

Page2.Java

package MyPack;

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 javax.servlet.http.Cookie;

@WebServlet(name = "Page2", urlPatterns = {"/Page2"})

public class Page2 extends HttpServlet {

public void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

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

PrintWriter out = response.getWriter();

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

out.println("<html>");

out.println("<head>");

out.println("<title>Page2</title>");

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

out.println("<body bgcolor=yellow text=green>");

Cookie[] ck = request.getCookies();

for (int i = 0; i < ck.length; i++) {

if (ck[i].getName().equals("visit")) {

int count = Integer.parseInt(ck[i].getValue()) + 1;

out.println("<h1>Visit No:" + count + "</h1>");

ck[i] = new Cookie("visit", count + "");

response.addCookie(ck[i]);

} else {

out.println(ck[i].getName() + "=" + ck[i].getValue());

}

}

out.println("<h1><a href=Page3>Click to visit Page 3</a></h1>");

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

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

}

}

Page3.java

package MyPack;

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 javax.servlet.http.Cookie;

@WebServlet(name = "Page3", urlPatterns = {"/Page3"})

public class Page3 extends HttpServlet {

public void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

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

PrintWriter out = response.getWriter();

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

out.println("<html>");

out.println("<head>");

out.println("<title>Page3</title>");

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

out.println("<body bgcolor=red text=yellow>");

Cookie[] ck = request.getCookies();

for (int i = 0; i < ck.length; i++) {

if (ck[i].getName().equals("visit")) {

int count = Integer.parseInt(ck[i].getValue()) + 1;

out.println("<h1>Visit No:" + count + "</h1>");

ck[i] = new Cookie("visit", count + "");

response.addCookie(ck[i]);

} else {

out.println(ck[i].getName() + "=" + ck[i].getValue());

}

}

out.println("<h1><a href=Page4>Click to visit Page 4</a></h1>");

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

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

}

}

Page4.java

package MyPack;

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 javax.servlet.http.Cookie;

@WebServlet(name = "Page4", urlPatterns = {"/Page4"})

public class Page4 extends HttpServlet {

public void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

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

PrintWriter out = response.getWriter();

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

out.println("<html>");

out.println("<head>");

out.println("<title>Page4</title>");

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

out.println("<body bgcolor=orange text=blue>");

Cookie[] ck = request.getCookies();

for (int i = 0; i < ck.length; i++) {

if (ck[i].getName().equals("visit")) {

int count = Integer.parseInt(ck[i].getValue()) + 1;

out.println("<h1>Visit No:" + count + "</h1>");

ck[i] = new Cookie("visit", count + "");

response.addCookie(ck[i]);

} else {

out.println(ck[i].getName() + "=" + ck[i].getValue());

}

}

out.println("<h1><a href=Page5>Click to visit Page 5</a></h1>");

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

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

}

}

Page5.java

package MyPack;

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 javax.servlet.http.Cookie;

@WebServlet(name = "Page5", urlPatterns = {"/Page5"})

public class Page5 extends HttpServlet {

public void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

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

PrintWriter out = response.getWriter();

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

out.println("<html>");

out.println("<head>");

out.println("<title>Page5</title>");

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

out.println("<body bgcolor=cyan text=blue>");

Cookie[] ck = request.getCookies();

for (int i = 0; i < ck.length; i++) {

if (ck[i].getName().equals("visit")) {

int count = Integer.parseInt(ck[i].getValue()) + 1;

out.println("<h1>Visit No:" + count + "</h1>");

ck[i] = new Cookie("visit", count + "");

response.addCookie(ck[i]);

} else {

out.println(ck[i].getName() + "=" + ck[i].getValue());

}

}

out.println("<h1><a href=Page1>Click to visit Page 1</a></h1>");

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

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

}

}

c)

Index.html

<!DOCTYPE html>

<html>

<head>

<title>Session Demo</title>

<meta charset="UTF-8">

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

</head>

<body>

<form action="Page1" method="get">

Enter User ID<input type="text" name="txtName"><br>

<input type="reset"><input type="submit">

</form>

</body>

</html>

Page1.java

package mypack;

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 javax.servlet.http.HttpSession;

@WebServlet(name = "Page1", urlPatterns = {"/Page1"})

public class Page1 extends HttpServlet {

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

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

PrintWriter out = response.getWriter();

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

out.println("<html>");

out.println("<head>");

out.println("<title>Servlet Page1</title>");

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

HttpSession hs = request.getSession(true);

if (hs.isNew()) {

out.println("<body bgcolor=yellow>");

String name = request.getParameter("txtName");

hs.setAttribute("uname", name);

hs.setAttribute("visit", "1");

out.println("<h1>welcome 1st time</h1>");

} else {

out.println("<h1>welcome Again</h1>");

int visit = Integer.parseInt((String) hs.getAttribute("visit")) + 1;

out.println("<h1>You visited " + visit + "</h1>");

hs.setAttribute("visit", "" + visit);

}

out.println("<h1>Your Session ID "+hs.getId()+"</h1>");

out.println("<h1>You logged in at"+new java.util.Date(hs.getCreationTime())+"</h1>");

out.println("<h1><a href=Page2>Page2</a></h1>");

out.println("<h1><a href=Page3>Page3</a></h1>");

out.println("<h1><a href=Page4>Page4</a></h1>");

out.println("<h1><a href=Logout>Logout</a></h1>");

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

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

}

}

Page2.java

package mypack;

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 javax.servlet.http.HttpSession;

@WebServlet(name = "Page2", urlPatterns = {"/Page2"})

public class Page2 extends HttpServlet {

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

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

PrintWriter out = response.getWriter();

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

out.println("<html>");

out.println("<head>");

out.println("<title>Servlet Page2</title>");

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

HttpSession hs = request.getSession(false);

out.println("<body bgcolor=yellow>");

out.println("<h1>welcome Again on Page2</h1>");

int visit = Integer.parseInt((String) hs.getAttribute("visit")) + 1;

out.println("<h1>You visited " + visit + "</h1>");

hs.setAttribute("visit", "" + visit);

out.println("<h1>Your Session ID " + hs.getId() + "</h1>");

out.println("<h1>You logged in at" + new java.util.Date(hs.getCreationTime()) + "</h1>");

out.println("<h1><a href=Page1>Page1</a></h1>");

out.println("<h1><a href=Page3>Page3</a></h1>");

out.println("<h1><a href=Page4>Page4</a></h1>");

out.println("<h1><a href=Logout>Logout</a></h1>");

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

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

}

}

Page3.java

package mypack;

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 javax.servlet.http.HttpSession;

@WebServlet(name = "Page3", urlPatterns = {"/Page3"})

public class Page3 extends HttpServlet {

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

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

PrintWriter out = response.getWriter();

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

out.println("<html>");

out.println("<head>");

out.println("<title>Servlet Page3</title>");

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

HttpSession hs = request.getSession(false);

out.println("<body bgcolor=yellow>");

out.println("<h1>welcome Again on Page3</h1>");

int visit = Integer.parseInt((String) hs.getAttribute("visit")) + 1;

out.println("<h1>You visited " + visit + "</h1>");

hs.setAttribute("visit", "" + visit);

out.println("<h1>Your Session ID " + hs.getId() + "</h1>");

out.println("<h1>You logged in at" + new java.util.Date(hs.getCreationTime()) + "</h1>");

out.println("<h1><a href=Page1>Page1</a></h1>");

out.println("<h1><a href=Page2>Page2</a></h1>");

out.println("<h1><a href=Page4>Page4</a></h1>");

out.println("<h1><a href=Logout>Logout</a></h1>");

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

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

}

}

Page4.java

package mypack;

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 javax.servlet.http.HttpSession;

@WebServlet(name = "Page4", urlPatterns = {"/Page4"})

public class Page4 extends HttpServlet {

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

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

PrintWriter out = response.getWriter();

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

out.println("<html>");

out.println("<head>");

out.println("<title>Servlet Page4</title>");

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

HttpSession hs = request.getSession(false);

out.println("<body bgcolor=yellow>");

out.println("<h1>welcome Again on Page4</h1>");

int visit = Integer.parseInt((String) hs.getAttribute("visit")) + 1;

out.println("<h1>You visited " + visit + "</h1>");

hs.setAttribute("visit", "" + visit);

out.println("<h1>Your Session ID " + hs.getId() + "</h1>");

out.println("<h1>You logged in at" + new java.util.Date(hs.getCreationTime()) + "</h1>");

out.println("<h1><a href=Page1>Page1</a></h1>");

out.println("<h1><a href=Page2>Page2</a></h1>");

out.println("<h1><a href=Page3>Page3</a></h1>");

out.println("<h1><a href=Logout>Logout</a></h1>");

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

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

}

}

Logout.java

package mypack;

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 javax.servlet.http.HttpSession;

@WebServlet(name = "Logout", urlPatterns = {"/Logout"})

public class Logout extends HttpServlet {

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

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

PrintWriter out = response.getWriter();

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

out.println("<html>");

out.println("<head>");

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

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

out.println("<body bgcolor=yellow>");

HttpSession hs = request.getSession();

if(hs!=null) hs.invalidate();

out.println("<h1>You are logged out now</h1>");

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

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

}

}

Practical 3

a)

Index.html

<!DOCTYPE html>

<html>

<head>

<title>File upload</title>

<meta charset="UTF-8">

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

</head>

<body>

<form action="FileUploadServlet" method="post" enctype="multipart/form-data">

<h1>File Uploading</h1>

Select File to upload<input type="file" name="file"><br>

Destination<input type="text" value="C:\Users\omkar\Downloads" name="destination"><br>

<input type="submit" value="FileUpload" name="upload">

</form>

</body>

</html>

FileUploadServlet.java

package mypack;

import java.io.\*;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.\*;

import javax.servlet.annotation.MultipartConfig;

@WebServlet(name = "FileUploadServlet", urlPatterns = {"/FileUploadServlet"})

@MultipartConfig

public class FileUploadServlet extends HttpServlet {

protected void doPost(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

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

PrintWriter out = response.getWriter();

String path = request.getParameter("destination");

out.println(path);

Part fp = request.getPart("file");

String sfp = request.getPart("file").toString();

out.print("<br>file part: " + sfp);

String fn = fp.getSubmittedFileName();

out.println("<br><br><hr>file name: " + fn);

OutputStream os = null;

InputStream is = null;

try {

os = new FileOutputStream(new File(path + File.separator + fn));

is = fp.getInputStream();

int r = 0;

byte[] b = new byte[1024];

while ((r = is.read(b)) != -1) {

os.write(b, 0, r);

}

out.println("File Upoaded Successfully");

out.close();

} catch (FileNotFoundException e) {

out.print(e);

}

}

}

Index.html

<!DOCTYPE html>

<html>

<head>

<title>File Download</title>

<meta charset="UTF-8">

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

</head>

<body>

<h1>File Download Application</h1>

Click <a href="DownloadServlet?filename=W5.jpg">W5</a><br>

Click <a href="DownloadServlet?filename=W6.jpg">W6</a><br>

</body>

</html>

DownloadServlet.java

package mypack;

import java.io.\*;

import javax.servlet.\*;

import javax.servlet.annotation.\*;

import javax.servlet.http.\*;

@WebServlet(name = "DownloadServlet", urlPatterns = {"/DownloadServlet"})

public class DownloadServlet extends HttpServlet {

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("APPLICATION/OCTET-STREAM");

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

ServletContext sc = getServletContext();

InputStream is = sc.getResourceAsStream("/" + filename);

//ServletOutputStream out=response.getOutputStream();

PrintWriter out = response.getWriter();

response.setHeader("Content-Disposition", "attachement;filename=\"" + filename + "\"");

int i;

while ((i = is.read()) != -1) {

out.write(i);

}

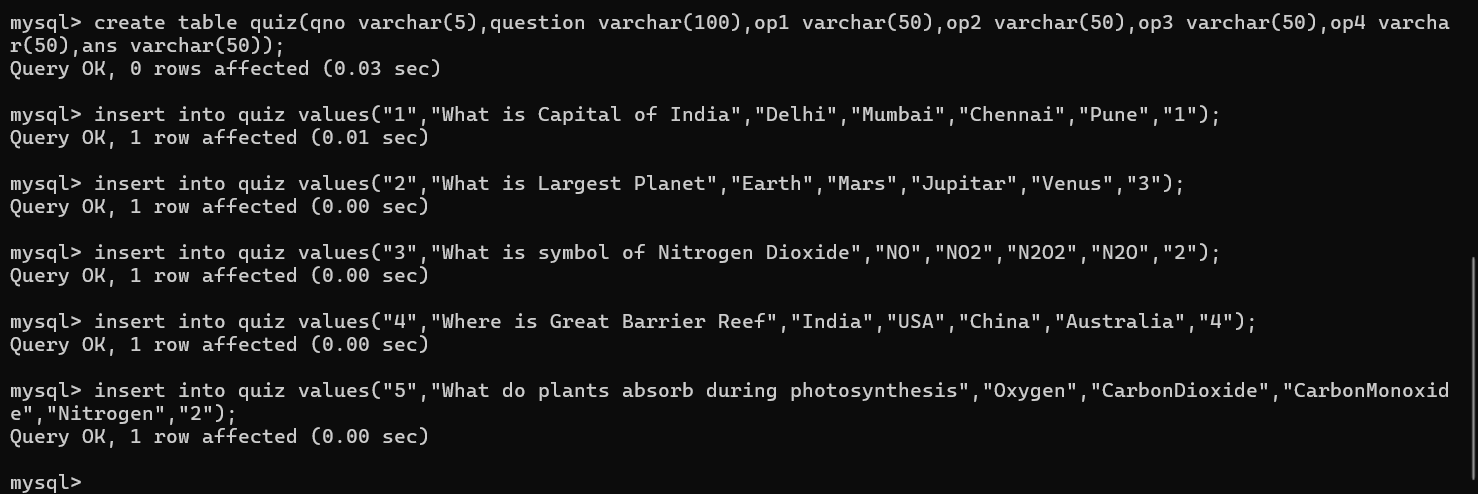
is.close();

out.close();

}

}

b)



QuizServlet.java

package mypack;

import java.io.IOException;

import java.io.PrintWriter;

import java.sql.DriverManager;

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 java.sql.\*;

@WebServlet(name = "QuizServlet", urlPatterns = {"/QuizServlet"})

public class QuizServlet extends HttpServlet {

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

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

PrintWriter out = response.getWriter();

out.println("<form action=ShowResult>");

try {

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

Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/mydb?autoReconnect=true&&useSSL=false", "root", "omkar");

Statement stmt = con.createStatement();

ResultSet rs = stmt.executeQuery("select \* from quiz");

out.println("<table border=1>");

int qno = 0;

while (rs.next()) {

qno++;

out.println("<tr><td>"+rs.getString(1)+"</td><td>"+rs.getString(2)+"</td></tr>");

out.println("<tr><td><input type=radio name='"+qno+"' value='"+1+"'></td><td>"+rs.getString(3)+"</td></tr>");

out.println("<tr><td><input type=radio name='"+qno+"' value='"+2+"'></td><td>"+rs.getString(4)+"</td></tr>");

out.println("<tr><td><input type=radio name='"+qno+"' value='"+3+"'></td><td>"+rs.getString(5)+"</td></tr>");

out.println("<tr><td><input type=radio name='"+qno+"' value='"+4+"'></td><td>"+rs.getString(6)+"</td></tr>");

}

} catch (ClassNotFoundException | SQLException e) {

out.println(e);

}

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

out.println("<input type=reset>");

out.println("<input type=submit>");

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

}

}

ShowResult.java

package mypack;

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 java.sql.\*;

@WebServlet(name = "ShowResult", urlPatterns = {"/ShowResult"})

public class ShowResult extends HttpServlet {

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

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

PrintWriter out = response.getWriter();

try {

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

Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/mydb?autoReconnect=true&&useSSL=false", "root", "omkar");

Statement stmt = con.createStatement();

ResultSet rs = stmt.executeQuery("select ans from quiz");

int qno = 0;

int c = 0;

while (rs.next()) {

if (rs.getString(1).equals(request.getParameter("" + (++qno)))) {

c++;

out.println("Correct<br>");

} else {

out.println("Incorrect<br>");

}

}

} catch (ClassNotFoundException | SQLException e) {

out.println(e);

}

}

}

c)

Index.html

<!DOCTYPE html>

<html>

<head>

<title>Non Blocking IO</title>

<meta charset="UTF-8">

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

<meta http-equiv="Refresh" content="0; URL=NonBlockingServlet">

</head>

<body>

</body>

</html>

NonBlockingIO.java

package mypack;

import java.io.\*;

import javax.servlet.\*;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.\*;

import java.net.\*;

import java.util.\*;

@WebServlet(name = "NonBlockingServlet", urlPatterns = {"/NonBlockingServlet"})

public class NonBlockingServlet extends HttpServlet {

protected void service(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

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

PrintWriter out = response.getWriter();

out.print("<h1>File Reader</h1>");

String filename = "/WEB-INF/BookList.txt";

ServletContext c = getServletContext();

InputStream in = c.getResourceAsStream(filename);

String path;

path = "http://" + request.getServerName() + ":" +

request.getServerPort() + request.getContextPath() +"/ ReadingNonBlocling Servlet";

URL url = new URL(path);

HttpURLConnection conn = (HttpURLConnection) url.openConnection();

conn.setChunkedStreamingMode(2);

conn.setDoOutput(true);

conn.connect();

if (in != null) {

InputStreamReader inr = new InputStreamReader(in);

BufferedReader br = new BufferedReader(inr);

String text = "";

System.out.println("Reading started....");

BufferedWriter bw = new BufferedWriter(new OutputStreamWriter(conn.getOutputStream()));

while ((text = br.readLine()) != null)

{

out.print(text + "<br>");

try {

Thread.sleep(1000);

out.flush();

}

catch (InterruptedException ex)

{

}

}

out.print("reading completed....");

bw.flush();

bw.close();

}

}

}

ReadingNonBlockingIO.java

package mypack;

import java.io.\*;

import javax.servlet.\*;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.\*;

@WebServlet(name = "ReadingNonBlockingServlet", urlPatterns = {"/ReadingNonBlockingServlet"})

public class ReadingNonBlockingServlet extends HttpServlet {

protected void service(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

AsyncContext ac = request.startAsync();

ServletInputStream in = request.getInputStream();

in.setReadListener(new ReadingListener(in, ac));

}

}

ReadingListener.java

package mypack;

import java.io.\*;

import javax.servlet.\*;

import javax.servlet.annotation.WebServlet;

@WebServlet(name = "ReadingListener", urlPatterns = {"/ReadingListener"})

public class ReadingListener implements ReadListener {

ServletInputStream is = null;

AsyncContext a = null;

ReadingListener(ServletInputStream in, AsyncContext ac)

{

is = in;

a = ac;

}

@Override

public void onDataAvailable(){}

public void onAllDataRead()

{

a.complete();

}

public void onError(Throwable t){

a.complete();

t.printStackTrace();

}

}

Practical 4

a)

Index jsp

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

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

<body>

<hl>Use of Intrinsic Objects in JSP</hl>

<hl>Request Object </hl>

Query String <%= request.getQueryString()%><br>

Context Path <%=request.getContextPath()%><br>

Remote Host <%=request.getRemoteHost()%><br>

<hl>Response Object </hl>

Character Encoding Type <%=response.getCharacterEncoding()%><br>

Content Type <%=response.getContentType()%><br>

Locale <%=response.getLocale()%><br>

<hl>Session Object </hl>

ID =session.getid() <br>

Creation Time <%=new java.util.Date(session.getCreationTime())%><br>

Last Access Time<%=new java.util.Date(session.getLastAccessedTime())%><br>

</body>

</html>

b)

**<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="Validate.jsp">**

**Enter Your Name: <input type="text" name="name"><br>**

**Enter Your Age: <input type="text" name="age"><br>**

**Enter Your Email: <input type="text" name="email"><br>**

**Select Hobbies:**

**<input type="checkbox" name="hob" value="singing">Singing**

**<input type="checkbox" name="hob" value="dancing">Dancing**

**<input type="checkbox" name="hob" value="playing">Playing <br>**

**Select Gender:**

**<input type="radio" name="gender" value="male">Male**

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

**<input type="radio" name="gender" value="other">Other <br>**

**<input type="hidden" name="error" value="">**

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

**</form>**

**</body>**

**</html>**

**Successful.jsp**

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

**<!DOCTYPE html>**

**<html>**

**<head>**

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

**<title>JSP Page</title>**

**</head>**

**<body>**

**<h1>Data Validated Successfully</h1>**

**</body>**

**</html>**

**Validate.jsp**

**<%@page contentType="text/html" pageEncoding="UTF-8" import="mypack.\*"%>**

**<!DOCTYPE html>**

**<html>**

**<head>**

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

**<title>JSP Page</title>**

**</head>**

**<body>**

**<h1>Validation Page</h1>**

**<jsp:useBean id="obj" scope="request" class="mypack.CheckerBean">**

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

**</jsp:useBean>**

**<% if(obj.validate()) { %>**

**<jsp:forward page="Successful.jsp"/>**

**<% } else { %>**

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

**<% } %>**

**<%= obj.getError() %>**

**</body>**

**</html>**

c)

registerhtml

<!DOCTYPE html>

<html><head><title>New User Registration Page</title> </head>

<body>

<form action="Register.jsp">

<h1> New User Registration Page</h1>

Enter User Name <input type="text" name="txtName" ><br>

Enter Password <input type="password" name="txtPass1 " ><br>

Re-Enter Password<input type="password" name="txtPass2" ><br>

Enter Email<input type="text" name="txtEmail" ><br>

Enter Country Name <input type="text" name="txtCon" ><br>

<input type="reset">

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

</body>

</html>

loginhtml

<!DOCTYPE html>

<html>

<body>

<h1>Login Page</h1>

<form action="Login.jsp" >

Enter User Name <input type="text" name="txtName" ><br>

Enter Password <input type="password" name="txtPass" ><br>

<input type="reset" ><input type="submit" value="~-LOGIN~ " >

</form>

</body>

</html>

<%@page contentType="text/html" import="java.sql.\*"%>

<html><body>

<hl>Registration JSP Page</hl>

<%

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

String pass1 = request.getParameter("txtPass1");

String pass2 = request.getParameter("txtPass2");

String email = request.getParameter("txtEmail");

String ctry = request.getParameter("txtCon");

if (pass1.equals(pass2)) {

try {

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

Connection con

= DriverManager.getConnection("jdbc:mysql://localhost:3306/"

+ "mydb?autoReconnect=true&useSSL = false", "root", "omkar");

PreparedStatement stmt = con.prepareStatement("insert into user values (?, ?, ?, ?)");

stmt.setString(1, uname);

stmt.setString(2, pass1);

stmt.setString(3, email);

stmt.setString(4, ctry);

int row = stmt.executeUpdate();

if (row == 1) {

out.println("Registration Successful");

} else {

out.println("Registration FFFFFAAAIIILLLL ! ! ! ! ");

%><jsp:include page="Register.html" ></jsp:include>

<%

}

} catch (Exception e) {

out.println(e);

}

} else {

out.println("<hl>Password Mismatch</hl>");

%>

<jsp:include page="Register.html" ></jsp:include>

<% }

%>

</body>

</html>

<%@page contentType="text/html" import="java.sql.\*"%>

<html><body>

<hl>Registration JSP Page<!hl>

<%

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

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

ResultSet rs = null;

try {

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

Connection con

= DriverManager.getConnection(

"Jdbc:mysql://localhost:3306/mydb?autoReconnect=true&useSSL = false", "root", "omkar");

Statement stmt = con.createStatement();

rs = stmt.executeQuery("select password from user where usemame='+uname+'");

rs.next();

if (pass.equals(rs.getString(1))) {

out.println("<hl>~LOGIN SUCCESSFULLL------</hl>");

} else {

out.println("<hl>password does not match!!!! !</hl>");

%>

<jsp:include page="Register.html" ></jsp:include>

<%

}

} catch (Exception e) {

out.println("<hl>User does not exist!!!! !</hl>");

%>

<jsp:include page="Register.html" ></jsp:include>

<%

}

%>

</body>

</html>

Pr 5a

<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="UpdateEmp.jsp" method="post">

<h1>Registeration</h1>

Enter Employee no. : <input type="text" name="n"><br>

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

Enter Age : <input type="text" name="a"><br>

Salary : <input type="text" name="s"><br>

Designation : <input type="text" name="d"><br>

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

<input type="reset">

</form>

</body>

</html>

<%@page contentType="text/html" pageEncoding="UTF-8" import="java.sql.\*" %>

<!DOCTYPE html>

<html>

<head>

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

<title>JSP Page</title>

</head>

<body>

<%

String eno = request.getParameter("n");

String ename = request.getParameter("en");

String esal = request.getParameter("s");

try{

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

Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/mydb?autoReconnect=true&useSSL=false", "root", "sakshi@1705");

PreparedStatement ps = con.prepareStatement("select \* from emp where eno=?");

ps.setString(1, eno);

ResultSet rs = ps.executeQuery();

if(rs.next()){

out.println("<h1>Employee " + rs.getString(2) + " exists");

PreparedStatement psst = con.prepareStatement("update emp set esal=? where eno=?");

psst.setString(1, esal);

psst.setString(2, eno);

psst.executeUpdate();

out.println("<h1>Employee record updated.</h1>");

}

else{

out.println("<h1>Employee does not exists</h1>");

}

}

catch(Exception e){

out.println(e);

}

%>

</body>

</html>

Pr 5b

Index

SetDemo<html><body>

<a href="setDemo.jsp"> SetDemo</a>

<a href="Maxif.html"> MaxIF</a>

<a href="ForeachDemo.jsp"> ForEachDemo</a>

<a href="outDemo.jsp"> OutDemo</a>

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

<a href="choose\_ when\_otherwise.jsp"> choose\_ when\_otherwise</a>

</body></html>

setDemo jsp

<%@taglib prefix="c" uri="http://java.sun.com/jstl/core" %>

<c:set var="pageTitle" scope=" application" value="Dukes Soccer League: Registration" />

${pageTitle}

Maxif.html

<form action ="IFDemo.jsp">

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

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

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

</form>

IFDemo.jsp

<%@taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>

<c:set var="x" value="${param.x} "/>

<c:set var="y" value="${param.y} "/>

<c: if test="$ { x>y} ">

<font color="blue"><h2>The Ans is:</h2></font>

<c:out value="${x} is greater than ${y} "/>

</c:if>

<c:if test="${x<y} ">

<font color="blue"><h2>The Ans is:</h2></font>

<c:outvalue="${x} is Less than ${y}"/>

</c:if>

<c:if test="${x=y} ">

<font color="blue"><h2>The Ans is:</h2></font>

<c:out value="${x} is equals ${y} "/>

</c:if>

ForeachDemo.jsp

<%@taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>

<c:forEach begin="l" end="l O" var="i">

The Square of <c:out value=" ${i}=${i\*i} "/><br>

</c:forEach>

outDemo.jsp

<%@taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>

<c:set var="name" value="John"/>

My name is: <c:out value= "${name}" />

URLDemo.jsp

<%@taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>

<c:url value="/indexSc.html"/>

choose\_ when\_ otherwise.jsp

<%@taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>

<c:set var="income" value="${4000\*4} "/>

Your Income is: <c:out value="${income} "/>

<c:choose>

<c:when test="${income <=1000}">

Income is not good

</c:when>

<c:when test="${income > 10000} ">

Income is Very Good

</c:when>

<c:otherwise>

Income is undetermined

</c:otherwise>

</c:choose>

Pr 6a

<!DOCTYPE html>

<!--

To change this license header, choose License Headers in Project Properties.

To change this template file, choose Tools | Templates

and open the template in the editor.

-->

<html>

<head>

<title>Converter</title>

<meta charset="UTF-8">

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

</head>

<body>

<h1>Currency Converter</h1>

<form action="CCServlet">

Enter Amount : <input type="text" name="a"><br>

select type:

<input type="radio" name="type" value="r2d">Rupees to Dollars<br>

<input type="radio" name="type" value="d2r">Dollars to Rupees<br>

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

</form>

</body>

</html>

CCservlet

/\*

\* To change this license header, choose License Headers in Project Properties.

\* To change this template file, choose Tools | Templates

\* and open the template in the editor.

\*/

package mypack;

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 javax.ejb.EJB;

import mypack.CCBean;

/\*\*

\*

\* @author saksh

\*/

@WebServlet(name = "CCServlet", urlPatterns = {"/CCServlet"})

public class CCServlet extends HttpServlet {

@EJB CCBean obj;

@Override

protected void doGet(HttpServletRequest req, HttpServletResponse res)

throws ServletException, IOException {

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

PrintWriter out = res.getWriter();

double amt = Double.parseDouble(req.getParameter("a"));

if(req.getParameter("type").equals("r2d")){

out.println("<h1>Dollars: " + obj.r2d(amt) +"</h1>");

}

if(req.getParameter("type").equals("d2r")){

out.println("<h1>Rupees: " + obj.d2r(amt) + "</h1>");

}

}

}

CCbean

/\*

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\* To change this template file, choose Tools | Templates

\* and open the template in the editor.

\*/

package mypack;

import javax.ejb.Stateless;

/\*\*

\*

\* @author saksh

\*/

@Stateless

public class CCBean {

public CCBean(){}

public double r2d(double a){

return a / 88.80;

}

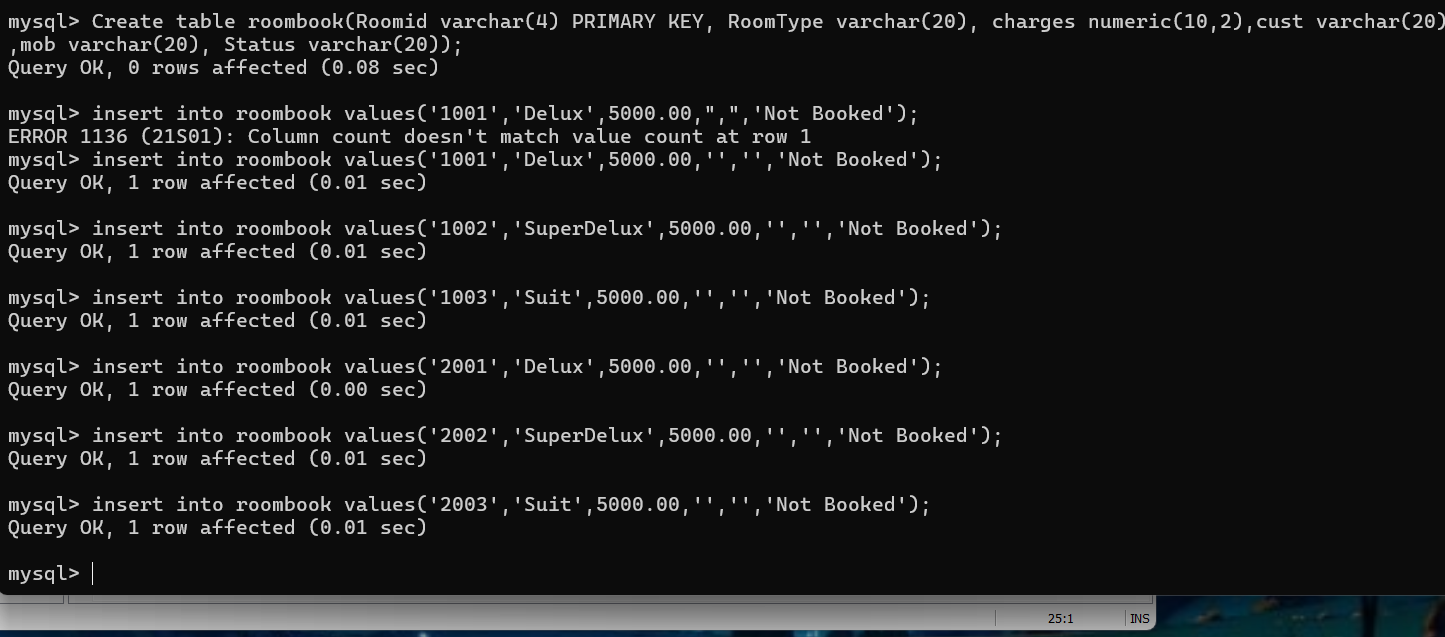
public double d2r(double a){

return a \* 88.80;

}

}

Pr 6b



Index

‘<!DOCTYPE html>

<!--

To change this license header, choose License Headers in Project Properties.

To change this template file, choose Tools | Templates

and open the template in the editor.

-->

<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="RBServlet">

Select a room Type

<input type="radio" name="txtType" value="Delux">Delux

<input type="radio" name="txtType" value="Super Delux">Super Delux

<input type="radio" name="txtType" value="Suit">Suit<br>

Enter Your Name: <input type="text" name="txtCust"><br>

Enter Mobile No: <input type="text" name="txtMob"><br>

<input type="reset">

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

</form>

</body>

</html>

RRServlet

package mypack;

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 javax.ejb.EJB;

import mypack.RBBean;

@WebServlet(name = "RBServlet", urlPatterns = {"/RBServlet"})

public class RBServlet extends HttpServlet {

@EJB RBBean obj;

@Override

public void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

PrintWriter out = response.getWriter();

// Form se data le rahe hain

String rt = request.getParameter("txtType"); // Room type

String cn = request.getParameter("txtCust"); // Customer name

String cm = request.getParameter("txtMob"); // Mobile number

// EJB method call kar rahe hain

String msg = obj.roomBook(rt, cn, cm);

// Result display kar rahe hain

out.println("<html><body bgcolor='yellow text='red'>");

out.println("<h1>" + msg + "</h1>");

out.println("<h1><body></html>");

}

}

RRBean

/\*

\* To change this license header, choose License Headers in Project Properties.

\* To change this template file, choose Tools | Templates

\* and open the template in the editor.

\*/

package mypack;

import javax.ejb.LocalBean;

import javax.ejb.Stateless;

import java.sql.\*;

@LocalBean

@Stateless

public class RBBean {

public RBBean(){}

public String roomBook(String rt, String cn, String cm){

String msg = "";

try{

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

Connection con = DriverManager.getConnection(

"jdbc:mysql://localhost:3306/mydb?autoReconnect=true&useSSL=false",

"root", "omkar");

PreparedStatement ps = con.prepareStatement("select \* from roombook where RoomType=? and Status='Not Booked'");

ps.setString(1, rt);

ResultSet rs = ps.executeQuery();

if(rs.next()){

String rno = rs.getString(1);

PreparedStatement ps1 = con.prepareStatement("update roombook set mob=? where roomid=?");

ps1.setString(1, cm);

ps1.setString(2, rno);

ps1.executeUpdate();

PreparedStatement ps2 = con.prepareStatement("update roombook set status=? where roomid=?");

ps2.setString(1, "Booked");

ps2.setString(2, rno);

ps2.executeUpdate();

PreparedStatement ps3 = con.prepareStatement("update roombook set cust=? where roomid=?");

ps3.setString(1, cn);

ps3.setString(2, rno);

ps3.executeUpdate();

msg = "Room " + rno + " Booked. The Charges are " + rs.getString(3);

}

else{

msg = "Room " + rt + " currently Not available";

}

}

catch(Exception e){

msg = "" + e;

}

return msg;

}

}

Pr7a

index

<!DOCTYPE html>

<!--

To change this license header, choose License Headers in Project Properties.

To change this template file, choose Tools | Templates

and open the template in the editor.

-->

<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>

<div>TODO write content</div>

</body>

</html>

package servlet;

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 ejb.CountServletHitsBean;

import javax.ejb.EJB;

@WebServlet(name = "ServletClient", urlPatterns = {"/ServletClient"})

public class ServletClient extends HttpServlet {

@EJB

CountServletHitsBean obj;

@Override

protected void service(HttpServletRequest req, HttpServletResponse res) throws ServletException, IOException {

res.setContentType("text/html");

PrintWriter out= res.getWriter();

out.print("<b>Number of times this Servlet is accessed </b>: " + obj.getCount());

}

}

package ejb;

import javax.ejb.Singleton;

import javax.ejb.LocalBean;

@Singleton

@LocalBean

public class CountServletHitsBean {

private int hitCount ;

public synchronized int getCount() {

return hitCount++;

}

}

Pr 7b

<%@page import="ejb.MarksEntryBean"%>

<%@page import="javax.naming.InitialContext"%>

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

<!DOCTYPE html>

<%!

private static MarksEntryBean obj;

public void jspInit() {

try {

InitialContext ic = new InitialContext();

obj = (MarksEntryBean) ic.lookup("java:global/prac7b/MarksEntryBean");

} catch (Exception e) {

System.out.println(e);

}

}

%> <%

if (request.getParameter("InsertMarks") != null) {

String sname;

String marks1, marks2, marks3;

sname = request.getParameter("sname");

marks1 = request.getParameter("m1");

marks2 = request.getParameter("m2");

marks3 = request.getParameter("m3");

obj.addMarks(sname, marks1, marks2, marks3);

out.print("Marks entered successfully..!!!!");

}

%> <html>

<head>

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

</head>

<body>

<h2>Enter Details</h2>

<form name="result" method="post">

Enter student's name: <input type='text' name="sname" /><br>

Enter subject 1 marks: <input type="text" name="ml" /><br>

Enter subject 2 marks: <input type="text" name="m2" /><br>

Enter subject 3 marks: <input type='text' name="m3" /><br>

<input type='submit' name="InsertMarks" /><br>

</form>

</body>

</html>

marksentrybean

package ejb;

import java.sql.\*;

import javax.ejb.Stateful;

@Stateful

public class MarksEntryBean {

String sname;

String m1, m2, m3;

Connection con = null;

PreparedStatement st = null;

String query = "";

int row = 0;

public boolean addMarks(String sname, String m1, String m2, String m3) {

try {

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

con = DriverManager.getConnection("jdbc:mysql://localhost:3306/mydb", "root", "omkar");

st = con.prepareStatement(query);

query = "insert into marks (?,?,?,?)";

st.setString(1, sname);

st.setString(2, m1);

st.setString(3, m2);

st.setString(4, m3);

row = st.executeUpdate();

if(row > 0) {

return true;

} else {

return false;

}

} catch (Exception e) {

System.out.println(e);

}

return false;

}

}