**Practical 4 Date: -**

**Using Request Dispatcher Interface create a Servlet which will validate the password entered by the user, if the user has entered "Servlet" as password, then he will be forwarded to Welcome Servlet else the user will stay on the index.html page and an error message will be displayed**

**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="Login" method="post">

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

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

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

</form>

</body>

</html>

**Login.java: -**

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.RequestDispatcher;

import javax.servlet.ServletException;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

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 Login</title>");

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

out.println("<body>");

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

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

if(p.equals("Servlet")){

RequestDispatcher rd = request.getRequestDispatcher("NewServlet");

rd.forward(request, response);

} else {

out.print("Sorry UserName or Password Error!");

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

rd.include(request, response);

}

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

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

}

}

**WwlcomeServlet.java:-**

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;

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>");

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

out.print("Hello " + name + "");

out.print(" Welcome !!<br> You Login Sucessfully");

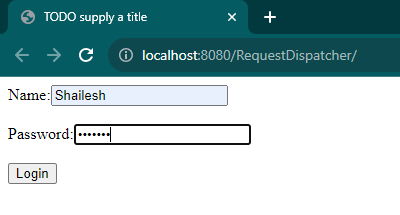
out.println("</body>");

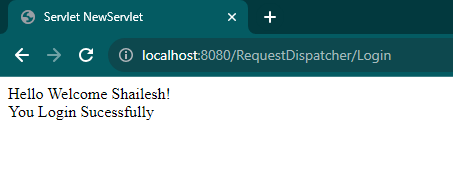
out.println("</html>");

}

}

Output : -





Practical No. 5 Date :- 28/06/2023

Create a servlet that uses Cookies to store the number of times a user has visited servlet

**Ckservlet.java**

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.ServletException;

import javax.servlet.http.Cookie;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

public class ckservlet extends HttpServlet {

static int i=1;

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 ckservlet</title>");

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

out.println("<body>");

Cookie c=new Cookie("visit",String.valueOf(i));

response.addCookie(c);

int j=Integer.parseInt(c.getValue());

if(j==1){

out.println("Wlecome User");

}

else{

out.println("You have visited this website "+j +" Times"); }

i++;

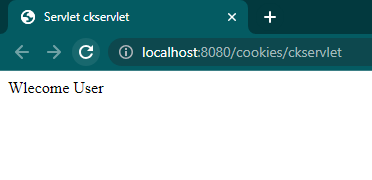
out.println("</body>");

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

}

} }

Output :-



**Practical 8 Date :- 22-08-2023**

**Create a registration and login JSP application to register and authenticate the user based on username and password using JDBC.**

**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">

<style>

form {

display: flex;

flex-direction: column;

margin-top: 10vh;

margin-bottom: 10vh;

margin-left: 30vw;

margin-right: 10vw;

background-color: rgb(11, 143, 204);

color: white;

align-items: center;

border-radius: 25px;

width: 40vw;

}

#d1 {

margin-left: -20vw;

}

#d2 {

margin-left: 2vw;

}

</style>

</head>

<body>

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

<center>

<h1>Registration Form</h1>

</center>

<div id="d1">

<b> First Name</b> <br>

<input type="text" name="first" />

<br /><br /> <b>Last Name </b><br />

<input type="text" name="last" />

<br /><br />

<label> <b>Email</b></label> <br />

<input type="email" name="mail" />

<br /><br />

<b> <label>Password</label></b> <br />

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

<br /><br />

</div>

<div id="d2">

<label> Select Your Course</label>

<input type="radio" name="course" value="BSC.IT"/> BSC.IT

<input type="radio" name="course" value="BSC.CS" />BSC.CS

<input type="radio" name="course" value="B.Com" />B.Com

<input type="radio" name="course" value="BSC" />BSC <br /><br />

<b><label>Select Your favourite Subject </label></b>

<select name="Subject">

<option value="Core Java">Core Java</option>

<option value="Enterprise Java">Enterprise Java</option>

<option value="Computer network">Computer Network</option>

<option>AWP</option>

</select>

<br /><br />

<label>Check your Hobbies</label><br><br>

<input type="checkbox" name="h1" value="Reading" /> Reading

<input type="checkbox" name="h1" value="Coding" />Coding

<input type="checkbox" name="h1" value="Playing On Ground Games"/>playing On ground games

<input type="checkbox" name="h1" value="Playing Moboile Games" />playing mobail games

</div>

<br>

<button value="submit" id="b1">submit</button>

</form>

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

</body>

</html>

**Registration.jsp: -**

<%@page import="java.sql.Statement"%>

<%@page import="java.sql.Connection"%>

<%@page import="java.sql.DriverManager"%>

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

<!DOCTYPE html>

<html>

<head>

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

<title>Register Page</title>

</head>

<body>

<center>

<%

String first\_Name = request.getParameter("first");

String last\_Name = request.getParameter("last");

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

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

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

String sub = request.getParameter("Subject");

String Hobby = request.getParameter("h1");

Connection con = DriverManager.getConnection("jdbc:derby://localhost:1527/empdata", "empdata", "empdata");

Statement stmt = con.createStatement();

String sql = ("insert into empdata values('" +first\_Name + "','" + last\_Name + "','" + mail + "','" + password + "','" + course + "','" + sub + "','" + Hobby + "')");

stmt.executeUpdate(sql);

out.println(" <h2>Welcome "+first\_Name+" <br> You Registerd Sucessfully </h2> ");

%>

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

</center>

</body>

</html>

**Login.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>

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

Username <input type="text" name="Uname"><br> <br>

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

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

</form>

</body>

</html>

**loginjsp.jsp :-**

<%@page import="java.sql.ResultSet"%>

<%@page import="java.sql.Statement"%>

<%@page import="java.sql.Connection"%>

<%@page import="java.sql.DriverManager"%>

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

<!DOCTYPE html>

<html>

<head>

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

<title>Login</title>

</head>

<body>

<% String uname=request.getParameter("Uname");

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

Connection con = DriverManager.getConnection("jdbc:derby://localhost:1527/empdata", "empdata", "empdata");

Statement stmt = con.createStatement();

ResultSet rs = stmt.executeQuery("select password from empdata where first\_name='"+uname+"'");

if(rs==null){

out.println("<h2>Your Name Not Found !!<br> Please Registerd </h2>");

} else{

while(rs.next()){

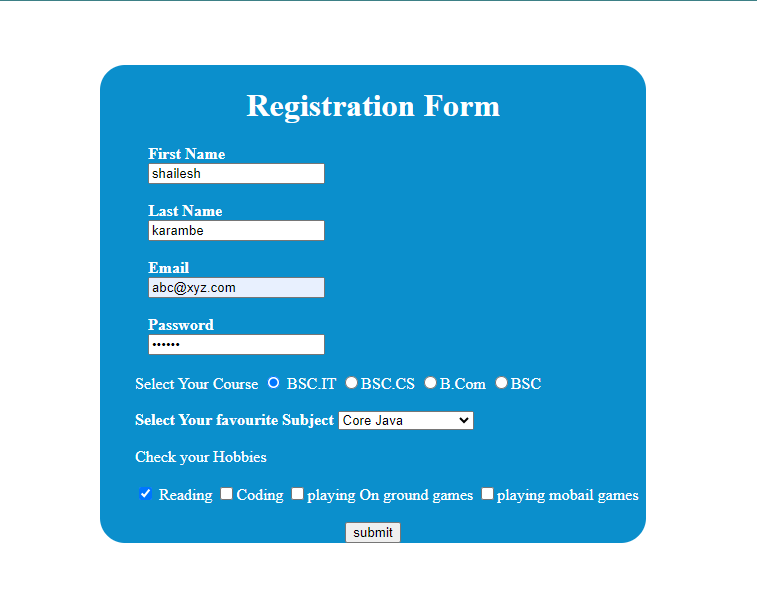
String res=rs.getString(1).equals(pass)?"Login Sucessfully":"Invalid Password";

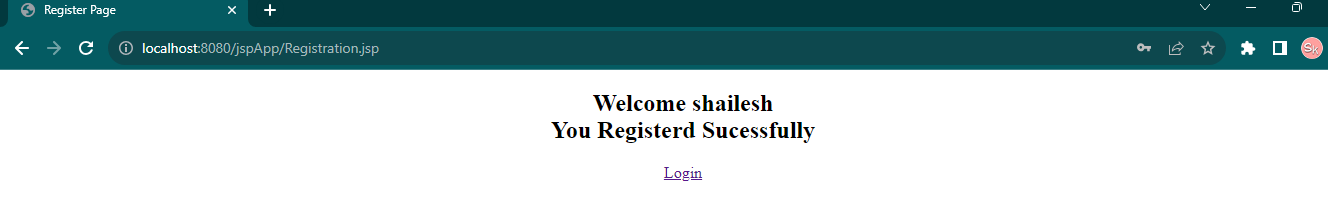
out.println("<h2> res</h2>");

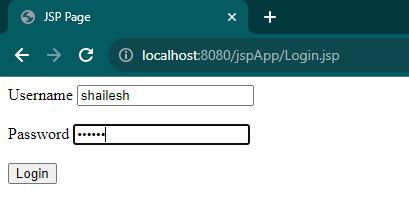
} } %>

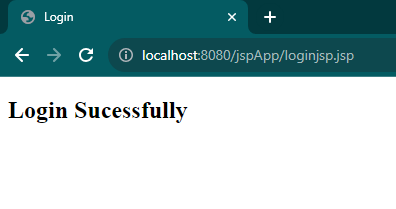
</body></html>

**Output: -**









**Practical: - 9 Date :- 8/08/2023**

**Develop a simple JSP application to pass values from one page to another**

**Index.html:-**

<html>

<head>

<title>Jsp Application</title>

<meta charset="UTF-8">

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

</head>

<body>

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

JSP Application<br><br>

Id <input type="text" name="id"><br><br>

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

<button > Submit</button>

</form>

</body>

</html>

**newjsp.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>

<%="Welcome To our Application"%> <br><br>

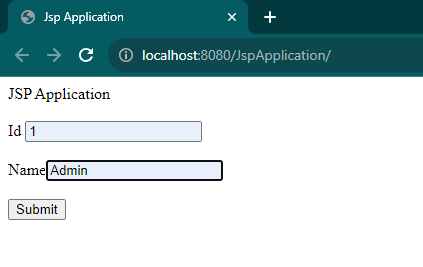
<%="Your Name :- " + request.getParameter("name")%><br><br>

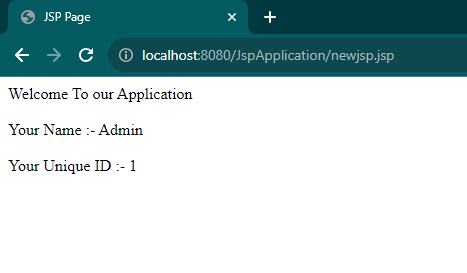
<%="Your Unique ID :- " + request.getParameter("id")%><br><br>

</body>

</html>

OUTPUT :-





**Practical 11 Date: - 08/08/2023**

**Create a JSP Application to demonstrate the use of expression language**

Index.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>

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

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

Enter First Number <input type="text" name="num1"><br><br>

Enter First Number <input type="text" name="num2"><br><br>

<button>ADD</button>

</form>

</body>

</html>

**Newjsp.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>

<%= "Welcome " + request.getParameter("name")%><br><br>

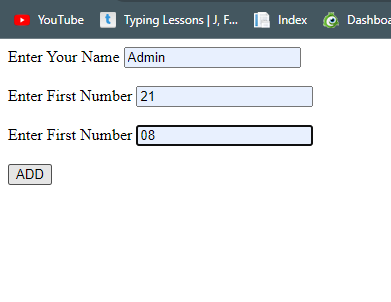
Current Time :- <%= java.util.Calendar.getInstance().getTime()%><br><br>

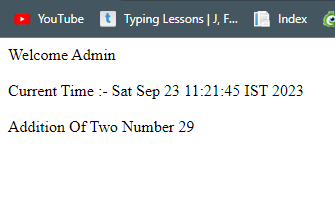
<%= "Addition Of Two Number " + ((Integer.parseInt(request.getParameter("num1"))) + (Integer.parseInt(request.getParameter("num2"))))%>

</body>

</html>

Output: -





Practical 12 Date:- 08-08-2023

**Create a JSP Application to demonstrate the use of JSTL.**

**Jstl.jsp: -**

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

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

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

<!DOCTYPE html>

<html>

<head>

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

<title>JSTL Application</title>

</head>

<h2> <c:out value="${'Using Core Tag'}"> </c:out><br></h2>

<h2> Table of 2:- <br></h2>

<c:forEach var="j" begin="1" end="10">

<c:out value="${2\*j}" /><br>

</c:forEach>

<h2> <c:out value="${'Using Function Tag'}"> </c:out><br></h2>

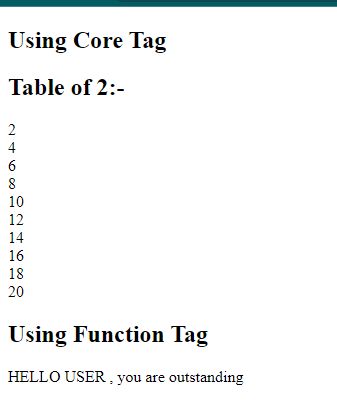
<c:set var="string" value="You are Outstanding"/>

${fn:toUpperCase("hello user ,")}

${fn:toLowerCase(string)}

</html>

**Output: -**



**Practical 13 Date: - 12/09/2023**

**Create a Currency Converter application using EJB.**

**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="NewServlet" method="POST">**

**<input type="text" name="n1"><br><br>**

**<select name="convert" >**

**<option> INR TO USD</option>**

**<option> USD TO INR</option>**

**</select><br><br>**

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

**</form>**

**</body>**

**</html>**

**NewServlet.java: -**

**package Session;**

**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 NewServlet extends HttpServlet {**

**@EJB**

**private NewSessionBeanLocal newSessionBean;**

**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 NewServlet</title>");**

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

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

**int num = Integer.parseInt(request.getParameter("n1"));**

**String op = request.getParameter("convert");**

**switch (op) {**

**case "INR TO USD":**

**out.println(num + " INR = " + newSessionBean.INRtoUSD(num) + "USD");**

**break;**

**case "USD TO INR":**

**out.println(num + " USD = " + newSessionBean.USDtoINR(num) + "INR");**

**break;**

**}**

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

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

**}**

**}**

**NewServletBean.java: -**

**package Session;**

**import javax.ejb.Stateless;**

**@Stateless**

**public class NewSessionBean implements NewSessionBeanLocal {**

**@Override**

**public Double USDtoINR(double a) {**

**return a\*82.9;**

**}**

**@Override**

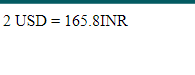
**public Double INRtoUSD(int a) {**

**return a/82.9;**

**}**

**}**

**Output: -**

**** ****

**Practical 14 Date: - 12/09/2023**

**Create a Calculator using EJB.**

**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="NewServlet" method="POST">

First Number<input type="text" name="n1"><br><br>

<select name="a">

<option> +</option>

<option> -</option>

<option> \*</option>

<option> /</option>

</select> <br><br>

Second Number<input type="text" name="n2"><br><br>

<button>submit </button>

</form>

</body>

</html>

package SessionBean;

import javax.ejb.Stateless;

@Stateless

public class NewSessionBean implements NewSessionBeanLocal {

@Override

public Integer add(int a, int b) {

return (a+b);

}

@Override

public Integer sub(int a, int b) {

return (a-b);

}

@Override

public Integer multi(int a, int b) {

return (a\*b);

}

@Override

public Double division(double a, double b) {

return (a/b);

}

}

**NewServlet.java: -**

package SessionBean;

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 NewServlet extends HttpServlet {

@EJB

private NewSessionBeanLocal newSessionBean;

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>");

int num1=Integer.parseInt(request.getParameter("n1"));

int num2=Integer.parseInt(request.getParameter("n2"));

String option=request.getParameter("a");

switch(option){

case "+":

out.println("Addition of "+ num1 +" & "+ num2 +" = "+newSessionBean.add(num2, num2));

break;

case "-":

out.println("Differnce of "+ num1 +" & "+ num2 +" = "+newSessionBean.sub(num2, num2));

break;

case "\*":

out.println("Multiplication of "+ num1 +" & "+ num2 +" is "+newSessionBean.multi(num2, num2));

break;

case "/":

out.println("Division of "+ num1 +" & "+ num2 +" is "+newSessionBean.division(num2, num2));

break;

}

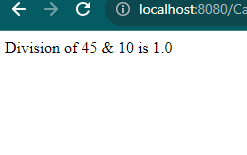
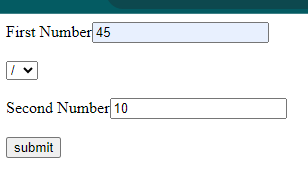
out.println("</body>");

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

}

}

Output: -



**Practical 15 Date: -12/09/2023**

**Develop a Simple Room Reservation System Application Using EJB.**

**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><center>**

**<h1>Hotel Reservation Form</h1>**

**<form action="NewServlet" method="POST">**

**Name<input type="text" name="name" placeholder="Enter Full Name"><br><br>**

**Address<input type="text" name="add" placeholder="Enter Full Address"><br><br>**

**DOB<input type="date" name="date"><br><br>**

**Aadhhar No.<input type="text" name="Anumber"><br><br>**

**Gender<input type="radio" name="gender">Male**

**<input type="radio" name="gender">Female<br><br>**

**Mobile No.<input type="text" name="mobile"><br><br>**

**Room Type <select name="type" >**

**<option> AC(3000 Rupees/day)</option>**

**<option>Non-AC (1000 Rupees/day)</option>**

**<option>Single Bed (2000 Rupees/day)</option>**

**</select><br><br>**

**<button>Book</button>**

**</form>**

**</center>**

**</body>**

**</html>**

**NewServlet.java: -**

**package bean;**

**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 NewServlet extends HttpServlet {**

**@EJB**

**private NewSessionBeanLocal newSessionBean;**

**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>");**

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

**String add = request.getParameter("add");**

**String dob = (request.getParameter("date"));**

**String anum = (request.getParameter("Anumber"));**

**String Gender = request.getParameter("gender");**

**String mob = (request.getParameter("mobile"));**

**String type = request.getParameter("type");**

**out.println(newSessionBean.reserv(name, add, dob, anum, Gender, mob, type));**

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

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

**}**

**}**

**NewSessionBean.java: -**

**package bean;**

**import java.sql.Connection;**

**import java.sql.Driver;**

**import java.sql.DriverManager;**

**import java.sql.SQLException;**

**import java.sql.Statement;**

**import java.util.logging.Level;**

**import java.util.logging.Logger;**

**import javax.ejb.Stateless;**

**@Stateless**

**public class NewSessionBean implements NewSessionBeanLocal {**

**@Override**

**public String reserv(String name, String address, String dob,String anumber, String gender, String mobile, String Rtype) {**

**try{**

**Connection con=DriverManager.getConnection("jdbc:derby://localhost:1527/rervation", "rervation", "rervation");**

**Statement stmt=con.createStatement();**

**String sql=("insert into rervation values('"+name+"','"+address+"','"+dob+"','"+anumber+"','"+gender+"','"+mobile+"','"+Rtype+"')");**

**stmt.executeUpdate(sql);**

**} catch (SQLException ex) {**

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

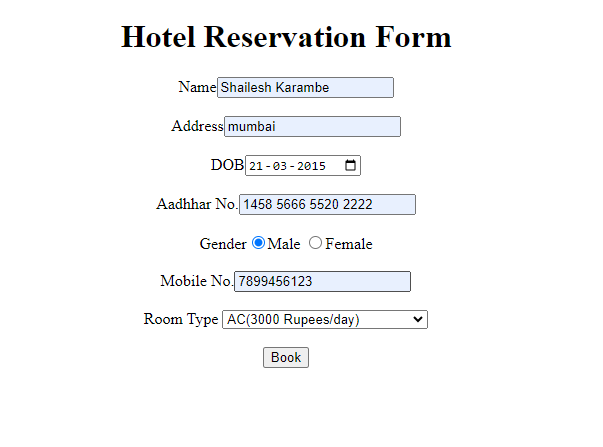
**}**

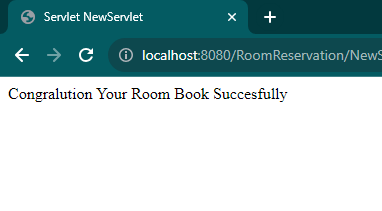
**return "Congralution Your Room Book Succesfully";**

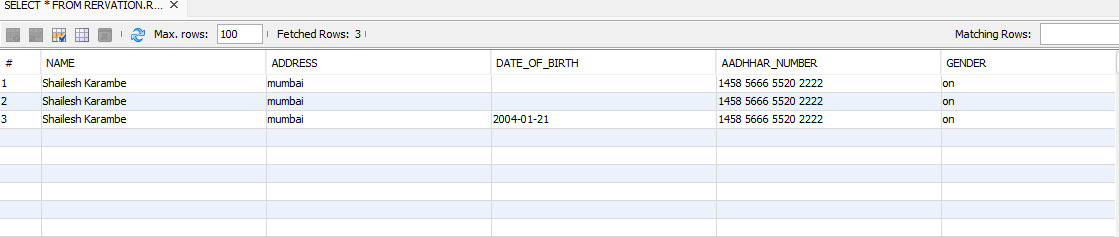
**}**

**}**

**Output: -**

****

****



**Practical 16 Date: - 14/09/2023**

**Develop a JPA Application to demonstrate use of ORM Associations**

**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="NewServlet" method="POST">

Name<input type="text" name="n1"><br><br>

Salary <input type="text" name="n2"><br><br>

<button> Submit</button>

</form>

</body>

</html>

**Emp.java: -**

package persistent;

import java.io.Serializable;

import javax.persistence.Entity;

import javax.persistence.GeneratedValue;

import javax.persistence.GenerationType;

import javax.persistence.Id;

@Entity

public class emp implements Serializable {

private static final long serialVersionUID = 1L;

@Id

@GeneratedValue(strategy = GenerationType.AUTO)

private Long id;

private String name;

private 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) {

// TODO: Warning - this method won't work in the case the id fields are not set

if (!(object instanceof emp)) {

return false;

}

emp other = (emp) 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 "persistent.emp[ id=" + id + " ]";

}

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;

}

}

**NewServlet.java: -**

package p1;

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;

import persistent.emp;

import persistent.empFacadeLocal;

public class NewServlet extends HttpServlet {

@EJB

private empFacadeLocal empFacade;

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 NewServlet</title>");

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

out.println("<body>");

emp obj = new emp();

obj.setName(request.getParameter("n1"));

obj.setSalary(Integer.parseInt(request.getParameter("n2")));

out.println("Data inserted");

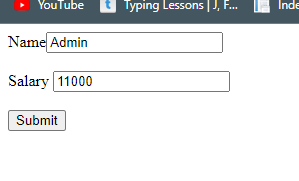
out.println("</body>");

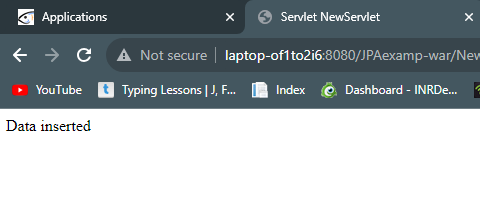
out.println("</html>");

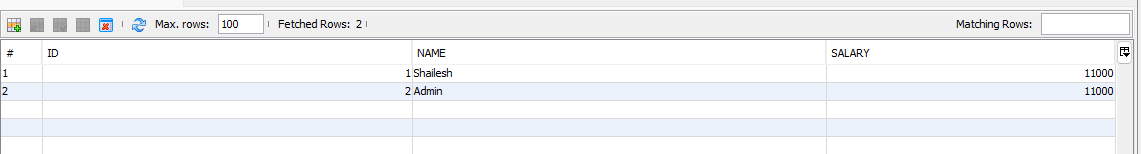
}

}

Output: -







**Practical no 17:-Develop a simple application using Hibernate**

**hibernate.reveng.xml:-**

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

<!DOCTYPE hibernate-reverse-engineering PUBLIC "-//Hibernate/Hibernate Reverse Engineering DTD 3.0//EN" "http://hibernate.sourceforge.net/hibernate-reverse-engineering-3.0.dtd">

<hibernate-reverse-engineering>

<schema-selection match-schema="STUDENT"/>

<table-filter match-name="INFO"/>

</hibernate-reverse-engineering>

**NewHibernateUtil.java:-**

import org.hibernate.cfg.AnnotationConfiguration;

import org.hibernate.SessionFactory;

public class NewHibernateUtil {

private static final SessionFactory sessionFactory;

static {

try {

// Create the SessionFactory from standard (hibernate.cfg.xml)

// config file.

sessionFactory = new AnnotationConfiguration().configure().buildSessionFactory();

} catch (Throwable ex) {

// Log the exception.

System.err.println("Initial SessionFactory creation failed." + ex);

throw new ExceptionInInitializerError(ex);

}

}

public static SessionFactory getSessionFactory() {

return sessionFactory;

}

}

**NewServlet.java:-**

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 org.hibernate.Session;

import org.hibernate.SessionFactory;

import org.hibernate.Transaction;

public class NewServlet extends HttpServlet {

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 NewServlet</title>");

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

out.println("<body>");

SessionFactory sf;

Transaction t;

Session s;

sf=NewHibernateUtil.getSessionFactory();

s=sf.openSession();

t=s.getTransaction();

t.begin();

mypack.Info stl=new mypack.Info(2, "chandhanyadav");

s.save(stl);

t.commit();

s.close();

out.println("<h1>Servlet NewServlet at " + request.getContextPath() + "</h1>");

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

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

}

}

**Info.hbm.xml:-**

<?xml version="1.0"?>

<!DOCTYPE hibernate-mapping PUBLIC "-//Hibernate/Hibernate Mapping DTD 3.0//EN"

"http://www.hibernate.org/dtd/hibernate-mapping-3.0.dtd">

<!-- Generated 26 Sep, 2023 9:47:15 PM by Hibernate Tools 4.3.1 -->

<hibernate-mapping>

<class name="mypack.Info" table="INFO" schema="STUDENT" optimistic-lock="version">

<id name="rollno" type="int">

<column name="ROLLNO" />

<generator class="assigned" />

</id>

<property name="name" type="string">

<column name="NAME" length="30" />

</property>

</class>

</hibernate-mapping>

**Info.java:-**

package mypack;

// Generated 26 Sep, 2023 9:47:14 PM by Hibernate Tools 4.3.1

public class Info implements java.io.Serializable {

private int rollno;

private String name;

public Info() {

}

public Info(int rollno) {

this.rollno = rollno;

}

public Info(int rollno, String name) {

this.rollno = rollno;

this.name = name;

}

public int getRollno() {

return this.rollno;

}

public void setRollno(int rollno) {

this.rollno = rollno;

}

public String getName() {

return this.name;

}

public void setName(String name) {

this.name = name;

}

Output:-

