**Practical – 01**

**1c. Create a registration servlet in Java using JDBC. Accept the details such as Username, Password, Email, and Country from the user using HTML Form and store the registration details in the database.**

**MySql Queries**

create database LoginDB;

use LoginDB;

create table user(username varchar(20), password varchar(20), email varchar(20), country varchar(20));

insert into user values ('abc','abc123','abc@gmail.com','India');

select \* from user;

**File Name: 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="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="submit" value="REGISTER" >**

**</form>**

</body>

</html>

**File Name: RegisterServlet.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 java.sql.\*;

public class RegisterServlet extends HttpServlet {

@Override

protected 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");**

**try {**

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

**Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/LoginDB", "root", "root");**

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

**pst.setString(1, id);**

**pst.setString(2, ps);**

**pst.setString(3, em);**

**pst.setString(4, co);**

**int row = pst.executeUpdate();**

**out.println("<h1>" + row + " Inserted Succesfullyyyyy");**

**} catch (Exception e) {**

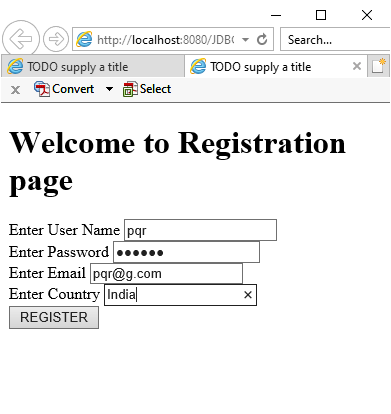
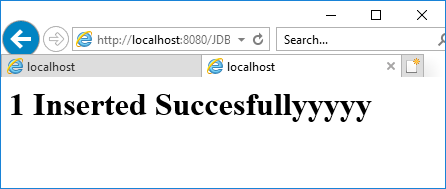
**out.println(e);**

**}**

}

}

**Output**

**mysql> select \* from user;**

+----------+----------+---------------+---------+

| username | password | email | country |

+----------+----------+---------------+---------+

| abc | abc123 | abc@gmail.com | India |

**| pqr | pqr123 | pqr@g.com | india |**

+----------+----------+---------------+---------+

**Practical – 04**

**4c. Create a registration and login JSP application to register and authenticate the user based on username and password using JDBC.**

**File Name: 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="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="submit" value="REGISTER" >**

**</form>**

</body>

</html>

**File Name: Register.jsp**

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

<html>

<body>

**<h1>Registration JSP Page</h1>**

**<%**

**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.jdbc.Driver");**

**Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/LoginDB", "root", "root");**

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

**}**

**}catch(Exception e)**

**{**

**out.println(e);**

**}**

**}**

**else**

**{**

**out.println("<h1>Password Mismatch</h1>");**

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

**<%**

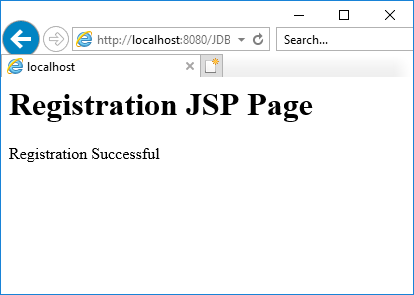
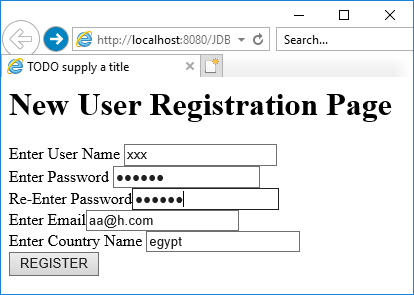
**}**

**%>**

**</body>**

**</html>**

**Output:**



**mysql> select \* from user;**

+----------+----------+---------------+---------+

| username | password | email | country |

+----------+----------+---------------+---------+

| abc | abc123 | abc@gmail.com | India |

| pqr | pqr123 | pqr@g.com | india |

**| xxx | xxx123 | aa@h.com | egypt |**

+----------+----------+---------------+---------+

3 rows in set (0.00 sec)

**File Name: Login.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.jsp" >**

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

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

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

**</form>**

</body>

</html>

**File Name: Login.jsp**

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

<html>

<body>

**<h1>Login JSP Page</h1>**

**<%**

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

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

**try{**

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

**Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/LoginDB", "root", "root");**

**PreparedStatement stmt = con.prepareStatement("select password from user where username=?"); stmt.setString(1, uname);**

**ResultSet rs = stmt.executeQuery();**

**if(rs.next())**

**{**

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

**{**

**out.println("<h1>~~~ LOGIN SUCCESSFULLL ~~~ </h1>");**

**}**

**}**

**else**

**{**

**out.println("<h1>User Name not exist !!!!!</h1>");**

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

**}**

**}catch(Exception e)**

**{out.println(e);**

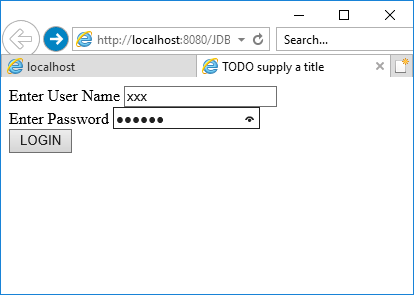
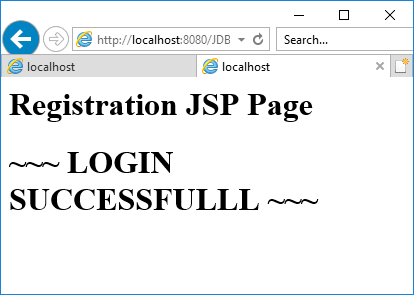
**}**

**%>**

</body>

</html>

**Output:**

**Practical – 05**

**5a. Create an html page with fields, eno, name, age, desg, salary. Now on submit this data to a JSP page which will update the employee table of database with matching eno**

**MySql Queries**

create table emp(empid varchar(10), ename varchar(50), salary varchar(50),age varchar(50) );

insert into emp values('1','aaa','2000','20');

insert into emp values('2','bbb','3000','22');

insert into emp values('3','ccc','4000','33');

**File Name: 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="UpdateEmp.jsp" >**

**Enter Employee No. <input type="text" name="txtEno" ><br>**

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

**Enter age<input type="text" name="txtAge" ><br>**

**Enter Salary<input type="text" name="txtSal" ><br>**

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

**</form>**

</body>

</html>

**File Name: UpdateEmp.jsp**

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

<html>

<body>

**<%**

**String eno=request.getParameter("txtEno");**

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

**String age = request.getParameter("txtAge");**

**String sal = request.getParameter("txtSal");**

**try**

**{**

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

**Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/LoginDB", "root", "root");**

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

**stmt.setString(1, eno);**

**ResultSet rs = stmt.executeQuery();**

**if(rs.next())**

**{**

**out.println("~~~ Employee Exist ~~~ ");**

**PreparedStatement pst1= con.prepareStatement("update emp set salary=? where empid=?");**

**PreparedStatement pst2= con.prepareStatement("update emp set age=? where empid=?");**

**pst1.setString(1, sal);**

**pst1.setString(2, eno);**

**pst2.setString(1, age);**

**pst2.setString(2, eno);**

**pst1.executeUpdate();**

**pst2.executeUpdate();**

**out.println("~~~ Record updates successfully ~~~ ");**

**}**

**else**

**{**

**out.println("Employee record doesnot exist !!");**

**}**

**}catch(Exception e)**

**{**

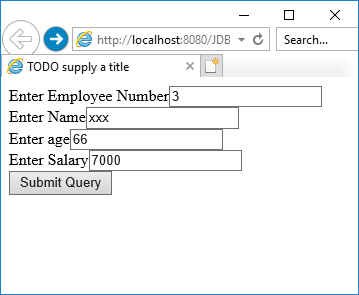
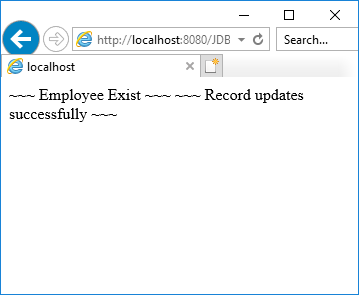
**out.println(e);**

**}**

**%>**

</body></html>

**Output:**

**mysql> select \* from emp;**

+-------+-------+--------+------+

| empid | ename | salary | age |

+-------+-------+--------+------+

| 1 | aaa | 2000 | 20 |

| 2 | bbb | 3000 | 22 |

**| 3 | ccc | 7000 | 66 |**

+-------+-------+--------+------+

**Practical – 06**

**6b. Develop a Simple Room Reservation System Application Using EJB.**

**MySql Queries**

Create table roombook(RoomId varchar(4), RoomType varchar(20), charges varchar(20), cust varchar(20), mob varchar(20) , status varchar(10));

insert into roombook values('1001','Delux',5000,'','','Not Booked');

insert into roombook values('1002','Super Delux',7000,'','','Not Booked');

insert into roombook values('1003','Suit',9500,'','','Not Booked');

**mysql> select \* from roombook;**

+--------+-------------+---------+------+------+------------+

| RoomId | RoomType | charges | cust | mob | status |

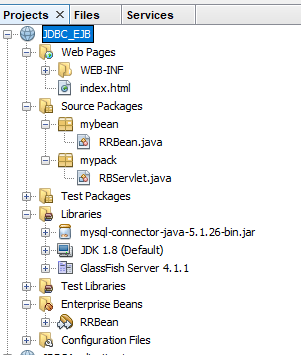
+--------+-------------+---------+------+------+------------+

| 1001 | Delux | 5000 | | | Not Booked |

| 1002 | Super Delux | 7000 | | | Not Booked |

| 1003 | Suit | 9500 | | | Not Booked |

+--------+-------------+---------+------+------+------------+

****

**File Name: 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="RBServlet" >**

**Enter room Type (Delux / Super Delux / Suit) <input type="text" name="txtType"><br>**

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

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

**<input type="submit" value="Book Room">**

**</form>**

</body>

</html>

**File Name: RRBean.java**

package mybean;

import javax.ejb.Stateless;

**import java.sql.\*;**

@Stateless

public class RRBean {

**public RRBean() {**

**}**

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

**{**

**String msg="";**

**try**

**{**

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

**Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/Logindb","root","root");**

**String query="select \* from roombook where RoomType=? and status='Not Booked'";**

**PreparedStatement pst = con.prepareStatement(query);**

**pst.setString(1,rt);**

**ResultSet rs= pst.executeQuery();**

**if(rs.next())**

**{**

**String rno=rs.getString(1);**

**PreparedStatement stm1 = con.prepareStatement("update roombook set cust=? where RoomId=? ");**

**PreparedStatement stm2 = con.prepareStatement("update roombook set mob=? where RoomId=? ");**

**PreparedStatement stm3 = con.prepareStatement("update roombook set status=? where RoomId=? ");**

**stm1.setString(1,cn);**

**stm1.setString(2,rno);**

**stm2.setString(1,cm);**

**stm2.setString(2,rno);**

**stm3.setString(1, "Booked");**

**stm3.setString(2,rno);**

**stm1.executeUpdate();**

**stm2.executeUpdate();**

**stm3.executeUpdate();**

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

**}**

**else**

**{**

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

**}**

**}catch(Exception e)**

**{**

**msg=" "+e;**

**}**

**return msg;**

**}**

}

**File Name: RBServlet.java**

package mypack;

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 mybean.RRBean;

public class RBServlet extends HttpServlet {

**@EJB RRBean obj;**

@Override

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

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

**String rt=request.getParameter("txtType");**

**String cn=request.getParameter("txtCust");**

**String cm=request.getParameter("txtMob");**

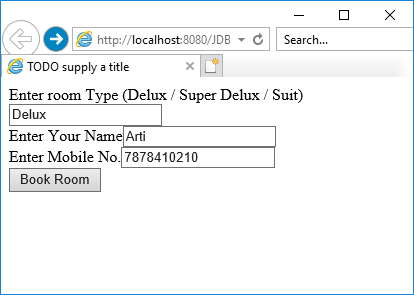
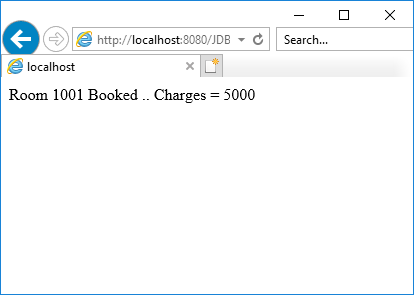
**String msg = obj.roomBook(rt, cn, cm);**

**out.println(msg);**

}

}

**Output:**

**mysql> select \* from roombook;**

+--------+-------------+---------+------+------------+------------+

| RoomId | RoomType | charges | cust | mob | status |

+--------+-------------+---------+------+------------+------------+

**| 1001 | Delux | 5000 | Arti | 7878410210 | Booked |**

| 1002 | Super Delux | 7000 | | | Not Booked |

| 1003 | Suit | 9500 | | | Not Booked |

+--------+-------------+---------+------+------------+------------+

**Practical – 07**

**7c. Develop simple Marks Entry Application to demonstrate accessing Database using EJB**

**MySql Queries**

create table studentMarks(sId varchar(4), sname varchar(20), totalmarks varchar(20));

insert into studentMarks values('1','John',500);

select \* from studentMarks;

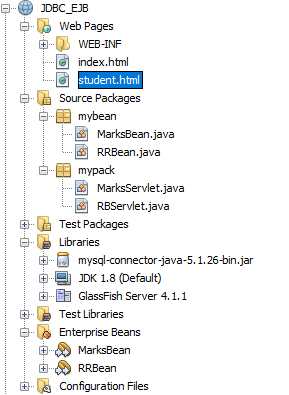
+------+-------+------------+

| sId | sname | totalmarks |

+------+-------+------------+

| 1 | John | 500 |

+------+-------+------------+

****

**File Name: student.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="MarksServlet" >**

**Enter Sid:<input type="text" name="txtSid"><br>**

**Enter Sname<input type="text" name="txtSname" ><br>**

**Enter Smarks<input type="text" name="txtSmarks" ><br>**

**<input type="submit" value="Enter Marks">**

**</form>**

</body>

</html>

**File Name: MarksBean.java**

package mybean;

import javax.ejb.Stateless;

**import java.sql.\*;**

@Stateless

public class MarksBean {

**public MarksBean() {**

**}**

**public String marksEntry(String i, String n, String m)**

**{**

**String msg="";**

**try**

**{**

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

**Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/Logindb","root","root");**

**String query="insert into studentMarks values (?,?,?)";**

**PreparedStatement pst = con.prepareStatement(query);**

**pst.setString(1,i);**

**pst.setString(2,n);**

**pst.setString(3,m);**

**pst.executeUpdate();**

**msg = "Marks entered !!!";**

**}catch(Exception e)**

**{**

**msg=" "+e;**

**}**

**return msg;**

**}**

}

**File Name: MarksBean.java**

package mypack;

import java.io.\*;

**import javax.ejb.EJB;**

import javax.servlet.\*;

import javax.servlet.http.\*;

**import mybean.MarksBean;**

public class MarksServlet extends HttpServlet {

**@EJB MarksBean obj;**

@Override

protected void doGet(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

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

**String i=request.getParameter("txtSid");**

**String n=request.getParameter("txtSname");**

**String m=request.getParameter("txtSmarks");**

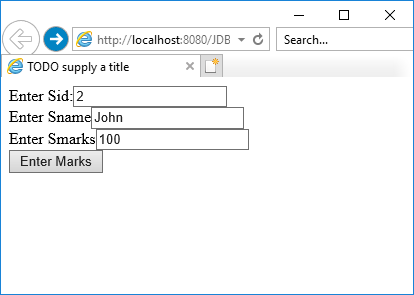
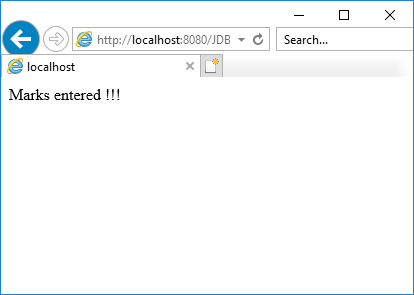
**String msg = obj.marksEntry(i, n, m);**

**out.println(msg);**

}

}

**Output:**

**mysql> select \* from studentmarks;**

+------+-------+------------+

| sId | sname | totalmarks |

+------+-------+------------+

| 1 | John | 500 |

**| 2 | John | 100 |**

+------+-------+------------+