Program-10

import java.sql.\*;

public class StudentDatabaseApp {

// JDBC URL, username, and password of MySQL server

private static final String JDBC\_URL = "jdbc:mysql://localhost:3306/your\_database";

private static final String DB\_USER = "your\_username";

private static final String DB\_PASSWORD = "your\_password";

public static void main(String[] args) {

try (Connection connection = DriverManager.getConnection(JDBC\_URL, DB\_USER, DB\_PASSWORD)) {

Statement statement = connection.createStatement();

String createQuery = "INSERT INTO students (id, name, age, department) VALUES (1, 'John', 21, 'Computer Science')";

statement.executeUpdate(createQuery);

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

String readQuery = "SELECT \* FROM students";

ResultSet resultSet = statement.executeQuery(readQuery);

while (resultSet.next()) {

int id = resultSet.getInt("id");

String name = resultSet.getString("name");

int age = resultSet.getInt("age");

String department = resultSet.getString("department");

System.out.println("ID: " + id + ", Name: " + name + ", Age: " + age + ", Department: " + department);

}

String updateQuery = "UPDATE students SET age = 22 WHERE name = 'John'";

statement.executeUpdate(updateQuery);

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

String deleteQuery = "DELETE FROM students WHERE name = 'John'";

statement.executeUpdate(deleteQuery);

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

} catch (SQLException e) {

e.printStackTrace();

}

}

}

**Program-11**

**index.html:**

<html

<head>

<title>VoterApp</title>

</head>

<body>

<form action= "http://localhost:8080/CheckAge/check" method="get">

<fieldset style="width:20%; background-color:#80ffcc">

<table>

<tr><td>Name</td><td><input type="text" name="name"></td></tr>

<tr><td>Age</td><td><input type="text" name="age"></td></tr>

<tr><td></td>

<td><input type = "submit" value="Check Eligibility"></td></tr>

</table>

</fieldset>

</form>

</body>

</html>

#### VoterSrv.java:

import java.io.\*;

import java.util.\*;

import javax.servlet.\*;

import javax.servlet.http.\*;

public class VoterSrv extends HttpServlet

{

public void service(HttpServletRequest req, HttpServletResponse res) throws IOException,

ServletException

{

//set response content type

res.setContentType("text/html");

//get printWrite obj

PrintWriter pw = res.getWriter();

//read form data from page as request parameter

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

int age = Integer.parseInt(req.getParameter("age")); if (age>=18)

{

pw.println("<font color='green' size='4'>Welcome "+name+" to this site</font>");

}

else

pw.println("<font color='red' size='4'>Hello "+name+", you are not authorized to visit the site</font>");

//add hyperlink to dynamic page

pw.println("<br><br><a href= 'index.html'>back</a>");

//close the stream

pw.close();

}

}

#### web.xml:

<web-app>

<servlet>

<servlet-name>abc</servlet-name>

<servlet-class>VoterSrv</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>abc</servlet-name>

<url-pattern>/check</url-pattern>

</servlet-mapping>

</web-app>

Program-12

#### Sessionjsp.html

<head> <title> SESSION LOGIN </title> </head>

<body>

<center>

<form action="http://localhost:8080/jsp/Session1.jsp" method="get"> Enter Name: <input type="text" name="uname"> <br>

<input type="submit" value="LOGIN" name="register">

</form>

<html>

</center>

</body>

</html>

#### Session1.jsp

<%@page language="java" import="java.util.\*" errorPage=""%>

<form method="get" action="http://localhost:8080/jsp/Session2.jsp">

<%

Date d=new Date();

%>

<p align="right"> Time;<%=d.getTime()%></p>

<%

String un=request.getParameter("uname"); session.setAttribute("user",un); session.setAttribute("time",d.getTime());

%>

Hello <%=un%>

<br><br>

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

</form>

#### Session2.jsp

<%@page language="java" import="java.util.\*" errorPage=""%>

<%

Date d2=new Date();

String un=(String)session.getAttribute("user");

Long t1=(Long)session.getAttribute("time");

Long t2=d2.getTime();

%>

Thank you <%=un%>

<br><br>

Session duration: <%=(t2-t1)/(60\*60)%> seconds

<% session.invalidate();%>