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Lab 10

Program 10

/*

Modify the provided Java program to connect to a MySQL database and retrieve student details such as name, USN (University Serial Number), semester, age, course, date of birth (DOB), and address from a table named "students"

*/

```java
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;

public class jdbc {

    public static void main(String[] args) {
        // Replace these with your database details
        String jdbcUrl = "jdbc:mysql://localhost:3306/students_details";
        String username = "root";
        String password = "";

        try {
            // Establishing the database connection
            Connection connection = DriverManager.getConnection(jdbcUrl, username, password);

            // Retrieving student details
            String query = "SELECT * FROM students";
            PreparedStatement preparedStatement = connection.prepareStatement(query);
            ResultSet resultSet = preparedStatement.executeQuery();

            // Displaying student details
            while (resultSet.next()) {
                String name = resultSet.getString("name");
                String usn = resultSet.getString("usn");
                int semester = resultSet.getInt("semester");
                int age = resultSet.getInt("age");
                String course = resultSet.getString("course");
                String dob = resultSet.getString("dob");
                String address = resultSet.getString("address");
```

```java
            System.out.println("Name: " + name + ", USN: " + usn + ", Semester: " +
semester +
                ", Age: " + age + ", Course: " + course + ", DOB: " + dob + ", Address: " +
address);
        }

        // Closing resources
        resultSet.close();
        preparedStatement.close();
        connection.close();

    } catch (SQLException e) {
        e.printStackTrace();
    }
  }
}
```

OUTPUT 10

```
\java.exe' '@C:\Users\ADMIN\AppData\Local\Temp\cp_1so7mbatk2lurb6fi2wz8k2to.argfile' 'jdbc'
Name: Jaya, USN: ci010, Semester: 5, Age: 19, Course: cse(aiml), DOB: 2004-03-16, Address: nims
Name: Niki, USN: ci011, Semester: 5, Age: 20, Course: cse(cs), DOB: 2003-04-19, Address: gokul
Name: Teju, USN: ec009, Semester: 5, Age: 21, Course: ece, DOB: 2002-05-25, Address: shivansh
Name: sri, USN: cy020, Semester: 8, Age: 19, Course: mech, DOB: 2000-05-09, Address: shivansh
PS C:\Users\ADMIN\Desktop\jdbc_lab>
```

Program 11

/*
**A web application that takes name and age from an HTML page. If the
age is less than 18, it should send a page with "Hello , you are not
authorized to visit the site" message, where should be replaced with
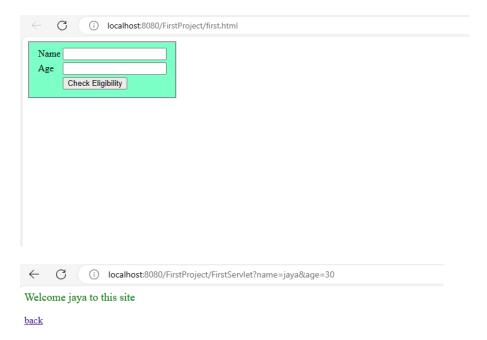the entered name. Otherwise it should send "Welcome to this site"
message.**

*/

first.html

```html
<html>
<head>
<title>VoterApp</title>
</head>
<body>
<form action= "http://localhost:8080/FirstProject/FirstServlet" method="get">
<fieldset style="width:20%; background-color:#80ffcc">
```

```html
<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>
```

FirstServlet.java

```java
import java.io.*;
import java.util.*;
import jakarta.servlet.*;
import jakarta.servlet.http.*;
public class FirstServlet 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= 'first.html'>back</a>");
//close the stream
pw.close();
}
}
```

OUTPUT 11

Name [   ]
Age [   ]
Check Eligibility

Welcome jaya to this site

back

Program 12

```
/*
```
A web application that takes a name as input and on submits it shows a hello <name>
page where the name is taken from the request. It shows the start time at the right top corner of the
page and provides a logout button. On clicking this button, it should show a logout page with
a Thank You < name > message with the duration of usage (hint: Use session to store name and time)
USING JSP.
```
*/
```

Webjsp.html

```
<html>
<head> <title> SESSION LOGIN </title> </head>
<body>
<center>
<form action="http://localhost:8080/SecondProject/Session1.jsp"
method="get"> Enter Name: <input type="text"
name="uname"> <br>
<input type="submit" value="LOGIN" name="register">
</form>
</center>
</body>
</html>
```

Session1.jsp

```
<%@page language="java" import="java.util.*" errorPage=""%>
<form method="get" action="http://localhost:8080/SecondProject/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%>

Session duration: <%=(t2-t1)/(60*60)%> seconds
<% session.invalidate();%>

OUTPUT 12

Enter Name: [   ]
[LOGIN]

Hello jaya

[logout]

Thank you jaya

Session duration: 7 seconds