**WEEK 8**

CREATE TABLE Students (student-id, student-name, course, branch, year, studentemailid);
Faculty(faculty_id,facultyname,studentid,studentname,course,year,facultyemailid)

I. Write a servlet program to retrieve the names of the student who study a particular course.

**DBConnection.java:**

```java
import java.io.*;
import java.util.*;
import javax.sql.*;
import javax.servlet.*;
import javax.servlet.http.*;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;


public class DBConnection extends HttpServlet {
public void service(HttpServletRequest request,
HttpServletResponse response)
throws IOException, ServletException{
response.setContentType("text/html");
String s1= request.getParameter("course");
PrintWriter out = response.getWriter();
out.println("<html>");
out.println("<body>");
// connecting to database
Connection con = null;
Statement stmt = null;
```

```java
ResultSet rs = null;
try {
Class.forName("com.mysql.jdbc.Driver");
con =DriverManager.getConnection("jdbc:mysql://localhost:3306/wt_db","root","root");
stmt = con.createStatement();
rs = stmt.executeQuery("SELECT * FROM students");
// displaying records
out.println("<center><h1>Students having course "+s1+"</h1>");
out.print("<table><tr><th>Student Name</th></tr>");
while(rs.next()){
String s2=rs.getObject(3).toString();
if(s1.equals(s2)){
out.print("<tr><td>");
out.print(rs.getObject(2).toString());
out.print("</td></tr>");}
out.print("<br>");}
out.println("</table><br><br><h3>Copyright @ Anoop-20071A0560</h3></center></body></html>");
} catch (SQLException e) {
throw new ServletException("Servlet Could not display records.", e);
} catch (ClassNotFoundException e) {
throw new ServletException("JDBC Driver not found.", e);
} finally {
try {
if(rs != null) {
rs.close();
rs = null;}
if(stmt != null) {
stmt.close();
stmt = null;}
if(con != null) {
con.close();
```

```
con = null;}
} catch (SQLException e) {}}
out.close();}}
```

**Html file:**

```html
<html>
<body>
        <center>
        <form name="Form1" action="http://localhost:8080/Myapp/DBConnection">
        <B>Enter the course of student to selcect</B>
        <input type=textbox name="course" size=25 value="">
        <input type=submit value="Submit">
        </form>
</body>
</html>
```
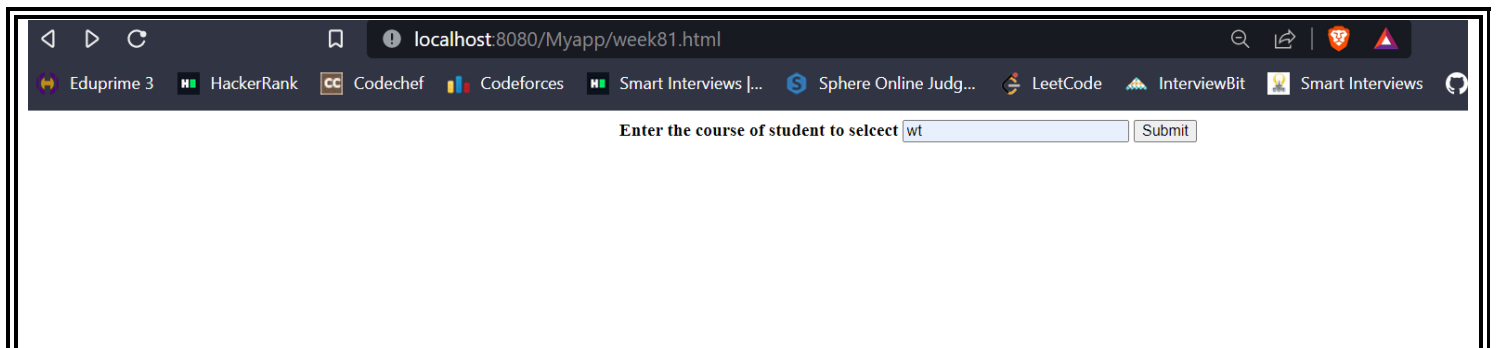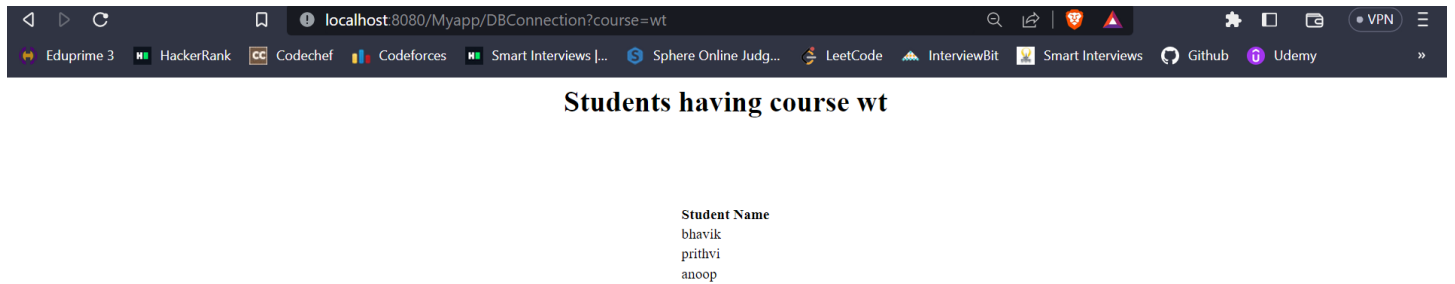
**Web.xml:**

```xml
<servlet>
        <servlet-name>DBConnection</servlet-name>
        <servlet-class>DBConnection</servlet-class>
</servlet>
<servlet-mapping>
        <servlet-name>DBConnection</servlet-name>
        <url-pattern>/DBConnection</url-pattern>
</servlet-mapping>
```

**Output:**

Entering course name



**Students having course wt**

Student Name
bhavik
prithvi
anoop

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Students with course WT

II. Write a servlet program to retrieve the names of the student who study a particular course and year.

**DBConnection2.java:**

import java.io.*;

import java.util.*;

import javax.sql.*;

import javax.servlet.*;

import javax.servlet.http.*;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

public class DBConnection2 extends HttpServlet {

  public void service(HttpServletRequest request,HttpServletResponse response)throws IOException,
ServletException{

```java
response.setContentType("text/html");

String s1= request.getParameter("course");

String s2= request.getParameter("year");

PrintWriter out = response.getWriter();

out.println("<html>");

out.println("<body>");

   // connecting to database

Connection con = null;

Statement stmt = null;

ResultSet rs = null;

try {

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

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

stmt = con.createStatement();

rs = stmt.executeQuery("SELECT * FROM students");

// displaying records

out.println("<center><h1>Students having course "+s1+" and studying in the year "+s2+" are :</h1>");

out.print("<table><tr><th>Student Name</th></tr>");

while(rs.next()){

      String s3=rs.getObject(3).toString();

      String s4=rs.getObject(5).toString();

      if(s1.equals(s3) && s2.equals(s4)){

      out.print("<tr><td>");

   out.print(rs.getObject(2).toString());

      out.print("</td></tr>");}

      out.print("<br>");}

      out.println("</table><br><br><h3>Copyright @ Anoop-
20071A0560</h3></center></body></html>");
```

```
  } catch (SQLException e) {
 throw new ServletException("Servlet Could not display records.", e);
  } catch (ClassNotFoundException e) {
  throw new ServletException("JDBC Driver not found.", e);
  } finally {
  try {
  if(rs != null) {
  rs.close();
  rs = null;}
  if(stmt != null) {
  stmt.close();
  stmt = null;}
  if(con != null) {
  con.close();
  con = null;}
  } catch (SQLException e) {}}
  out.close();}}
```

**Html file:**

```html
<html>
<body>
        <center>
        <form name="Form1" action="http://localhost:8080/Myapp/DBConnection2">
        <B>Enter the course of student to select</B>
        <input type=textbox name="course" size=25 value=""><br><br>
        <B>Enter the year of student to select</B>
        <input type=textbox name="year" size=25 value=""><br><br>
        <input type=submit value="Submit">
        </form>
</body>
</html>
```
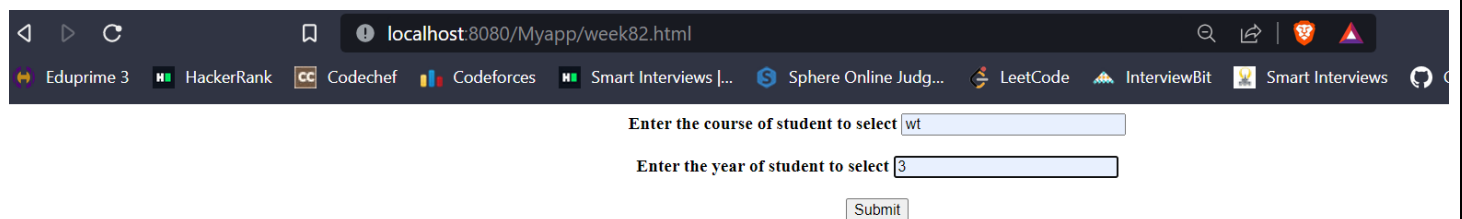
**Web.xml:**

```xml
<servlet>
        <servlet-name>DBConnection2</servlet-name>
        <servlet-class>DBConnection2</servlet-class>
</servlet>
<servlet-mapping>
        <servlet-name>DBConnection2</servlet-name>
        <url-pattern>/DBConnection2</url-pattern>
</servlet-mapping>
```
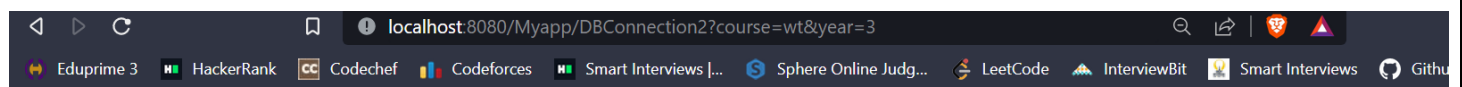
**Output:**



localhost:8080/Myapp/week82.html

Enter the course of student to select | wt
Enter the year of student to select | 3

Submit

Entering course and year details



localhost:8080/Myapp/DBConnection2?course=wt&year=3

**Students having course wt and studying in the year 3 are :**

**Student Name**
bhavik
anoop

**Copyright @ Anoop-20071A0560**

Students with course wt and year 3

III. Write a servlet program to retrieve the names of the student,course,branch,year who study under a particular faculty.(Note the Input is provided from the HTML form).

**DBConnection3.java:**

```java
import java.io.*;

import java.util.*;

import javax.sql.*;

import javax.servlet.*;

import javax.servlet.http.*;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;


public class DBConnection3 extends HttpServlet {

  public void service(HttpServletRequest request,

  HttpServletResponse response)

  throws IOException, ServletException{

  response.setContentType("text/html");

String s1= request.getParameter("faculty");

  PrintWriter out = response.getWriter();

  out.println("<html>");

  out.println("<body>");

     // connecting to database

  Connection con = null;

  Statement stmt = null;

  ResultSet rs = null;

  try {

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

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

  stmt = con.createStatement();

  rs = stmt.executeQuery("SELECT studentname, course, branch, year " +
```

```java
                "FROM students " +

                "WHERE studentid IN " +

                "(SELECT studentid FROM faculty WHERE facultyname = '" + s1 + "')");
  // displaying records
out.println("<center><h1>Students studying under the faculty "+s1+" are: </h1>");

out.print("<table border='1'><tr><th>Student
Name</th><th>Course</th><th>Branch</th><th>Year</th></tr>");

  while(rs.next()){
out.print("<tr><td>");

out.print(rs.getObject(1).toString());

out.print("</td><td>");

out.print(rs.getObject(2).toString());

out.print("</td><td>");

out.print(rs.getObject(3).toString());

out.print("</td><td>");

out.print(rs.getObject(4).toString());

out.print("</td></tr>");

   out.print("<br>");}
out.println("</table><br><br><h3>Copyright @ Anoop-20071A0560</h3></center></body></html>");

  } catch (SQLException e) {

 throw new ServletException("Servlet Could not display records.", e);

  } catch (ClassNotFoundException e) {

  throw new ServletException("JDBC Driver not found.", e);

  } finally {

  try {

  if(rs != null) {

  rs.close();

  rs = null;}
```

```
if(stmt != null) {
stmt.close();
stmt = null;}
if(con != null) {
con.close();
con = null;}
} catch (SQLException e) {}}}
out.close(); }}
```

**HTML file:**

```
<html>
<body>
        <center>
        <form name="Form1" action="http://localhost:8080/Myapp/DBConnection3">
        <B>Enter the name of the faculty</B>
        <input type=textbox name="faculty" size=25 value="">
        <input type=submit value="Submit">
        </form>
</body>
</html>
```

**Web.xml:**

```
<servlet>
        <servlet-name>DBConnection3</servlet-name>
        <servlet-class>DBConnection3</servlet-class>
</servlet>
<servlet-mapping>
        <servlet-name>DBConnection3</servlet-name>
        <url-pattern>/DBConnection3</url-pattern>
</servlet-mapping>
```

# VNR VJIET

Name of the laboratory:

_____

Name of the Experiment: _____

_____

Experiment No: _____ Date: _____

---

**Output:**



Enter the name of the faculty | ravindra | Submit

Entering faculty name



## Students studying under the faculty ravindra are:

| Student Name | Course | Branch | Year |
|---|---|---|---|
| srk | co | ece | 2 |
| bhavik | wt | ece | 3 |
| anoop | wt | cse | 3 |

Students studying under the faculty Ravindra
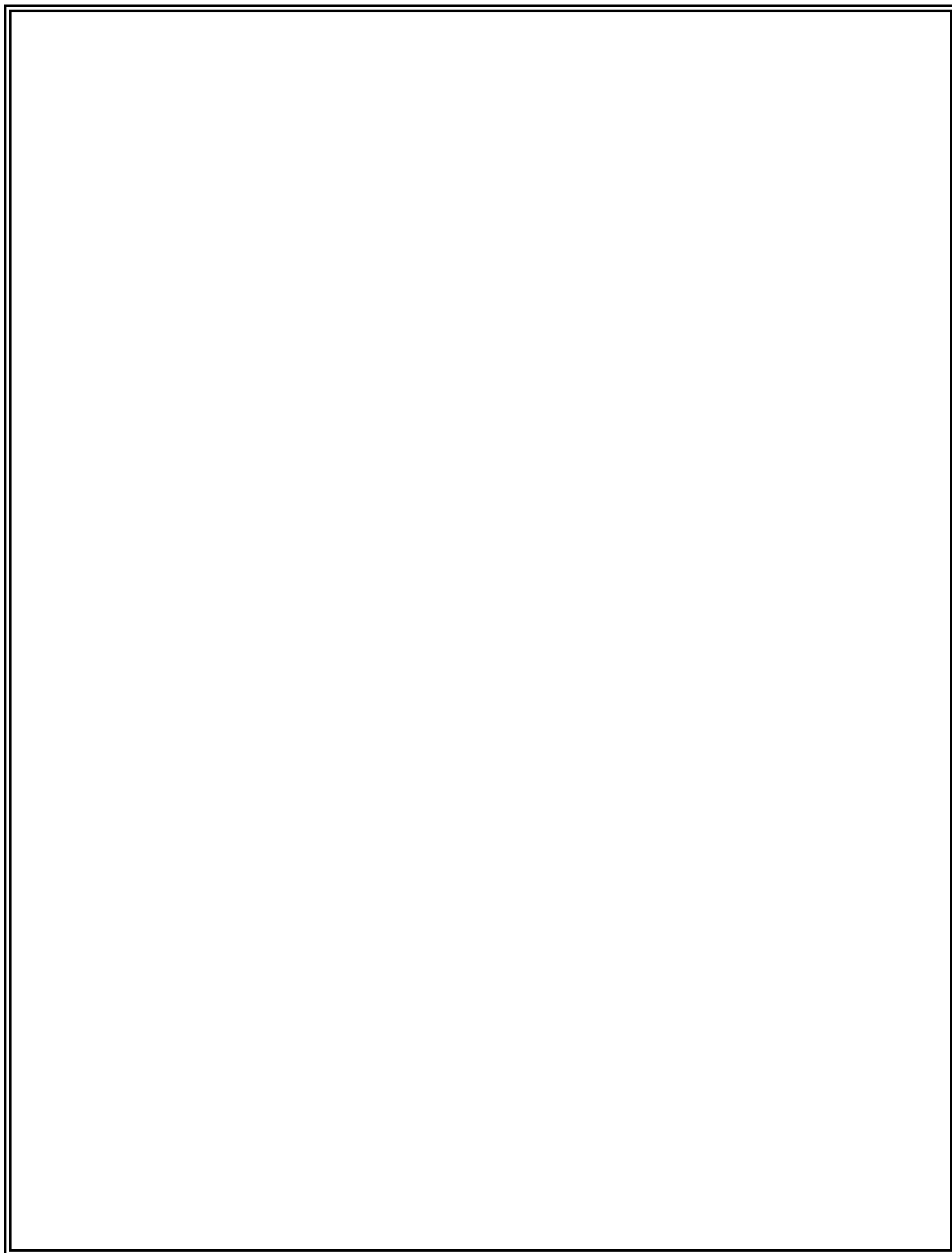
**WEEK 9**

Write a servlet program which does the following job:

Insert the details of the 3 or 4 users who register with the web site by using registration form.

**Registration.html:**

```html
<!DOCTYPE html>

<html>

<head>

<link rel="stylesheet" href="registration.css" />

</head>

<body>

        <h1 align="center">Registration</h2>

        <form name="myform" action="http://localhost:8080/Myapp/Insertion1" method="post"
onSubmit="return validation()">

                <label for="name">Name : </label>

                <input type="text" id="name" name="name" minlength="6" required><br><br>

                <label for="pass">Password : </label>

                <input type="password" id="pass" name="password" minlength="6" required><br><br>

                <label for="email">Email : </label>

                <input type="text" id="email" name="email" required><br><br>

                <label for="phoneno">Phone No : </label>

                <input type="text" id="phoneno" name="phoneno" required><br><br>

                <label>Sex : </label><br>

                <input type="radio" id="male" name="sex" value="male">

                <label for="male">Male</label><br>

                <input type="radio" id="female" name="sex" value="female">

                <label for="female">Female</label><br>

                <input type="radio" id="others" name="sex" value="others">

                <label for="others">Others</label><br><br>
```

```html
<label for="dob">Date of Birth:</label>
<select name="day" id="day">
 <option value="">Day</option>
 <option value="01">1</option>
 <option value="02">2</option>
 <option value="03">3</option>
 <option value="21">21</option>
 <option value="28">28</option>
 <option value="29">29</option>
 <option value="30">30</option>
 <option value="31">31</option>
</select>
<select name="month" id="month">
 <option value="">Month</option>
 <option value="01">January</option>
 <option value="02">February</option>
 <option value="03">March</option>
 <option value="04">April</option>
 <option value="05">May</option>
 <option value="06">June</option>
</select>
<select name="year" id="year">
 <option value="">Year</option>
 <option value="2000">2000</option>
 <option value="2001">2001</option>
 <option value="2002">2002</option>
 <option value="2003">2003</option>
</select><br><br>
<label for="languages">Languages known : </label><br>
<input type="checkbox" id="lan1" name="lan1" value="English">
<label for="lan1">English</label><br>
```

```html
            <input type="checkbox" id="lan2" name="lan2" value="Hindi">
            <label for="lan2">Hindi</label><br>
            <input type="checkbox" id="lan3" name="lan3" value="Telugu">
            <label for="lan3">Telugu</label><br>
            <input type="checkbox" id="lan4" name="lan4" value="Tamil">
            <label for="lan4">Tamil</label><br><br>
            <label for="address">Address : </label><br>
            <textarea id="address" name="address" rows="4" cols="50">
            </textarea><br><br>
            <input type="submit" value="Submit"> &nbsp&nbsp
            <input type="submit" value="Reset">
    </form>
    <script type="text/javascript">
            function validation(){
                    let uname=document.myform.name.value;
                    let unamereq=/^[A-Za-z]+$/;
                    if(uname.match(unamereq)){
                            let email=document.myform.email.value;
                            let emailreq=/^\w+([\.-]?\w+)*@\w+([\.-]?\w+)*(\.\w{2,3})+$/;
                            if(email.match(emailreq)){
                                    let pno=document.myform.phoneno.value;
                                    let pnoreq=/^\d{10}$/;
                                    if(pno.match(pnoreq)){
                                            return true;}
                                    else{ window.alert("ONLY Numbers");return false;}}
                            else{ window.alert("ONLY Email pattern");return false;}}
                    else{ window.alert("ONLY alphabets");return false;}}
    </script>
```

</body></html>

**Insertion1.java:**

```java
import java.io.*;
import java.sql.*;
import javax.servlet.*;
import javax.servlet.http.*;
public class Insertion1 extends HttpServlet{
  public void init(ServletConfig config) throws ServletException{
  super.init(config);}
  public void doPost(HttpServletRequest req, HttpServletResponse res) throws ServletException,IOException{
  ResultSet rs;
  res.setContentType("text/html");
  PrintWriter out = res.getWriter();
  //get the variables entered in the form
  String name = req.getParameter("name");
  String password = req.getParameter("password");
  String email = req.getParameter("email");
  String phoneno = req.getParameter("phoneno");
  String sex = req.getParameter("sex");
  String dob = req.getParameter("day")+req.getParameter("month")+req.getParameter("year");
  String languages="";
  if(req.getParameter("lan1")!=null)
        languages += req.getParameter("lan1");
  if(req.getParameter("lan2")!=null)
        languages = languages + "," + req.getParameter("lan2");
  if(req.getParameter("lan3")!=null)
        languages = languages + "," + req.getParameter("lan3");
  if(req.getParameter("lan4")!=null)
        languages = languages + "," + req.getParameter("lan4");
  String address = req.getParameter("address");
 Connection conn=null;
```

```java
try {
// Load the database driver
Class.forName("com.mysql.jdbc.Driver");
// Get a Connection to the database
conn= DriverManager.getConnection("jdbc:mysql://localhost:3306/wt_db", "root", "root");
//Add the data into the database
String sql = "insert into users values (?,?,?,?,?,?,?,?)";
PreparedStatement pst = conn.prepareStatement(sql);
pst.setString(1, name);
pst.setString(2, password);
pst.setString(3, email);
pst.setString(4, phoneno);
pst.setString(5, sex);
pst.setString(6, dob);
pst.setString(7, languages);
pst.setString(8, address);
int numRowsChanged = pst.executeUpdate();
// show that the new account has been created
out.println(" Hello : ");
out.println(" '"+name+"'");
res.sendRedirect("login.html");
pst.close();}
catch(ClassNotFoundException e){
out.println("Couldn't load database driver: "
+ e.getMessage());}
catch(SQLException e){
out.println("SQLException caught: "
+ e.getMessage());}
```

```
catch (Exception e){

out.println(e);}

finally {

// Always close the database connection.

try {

if (conn != null) conn.close();}

catch (SQLException ignored){

out.println(ignored);}}}}
```

**web.xml:**

```xml
<servlet>
<servlet-name>Insertion1</servlet-name>
<servlet-class>Insertion1</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>Insertion1</servlet-name>
<url-pattern>/Insertion1</url-pattern>
</servlet-mapping>
```
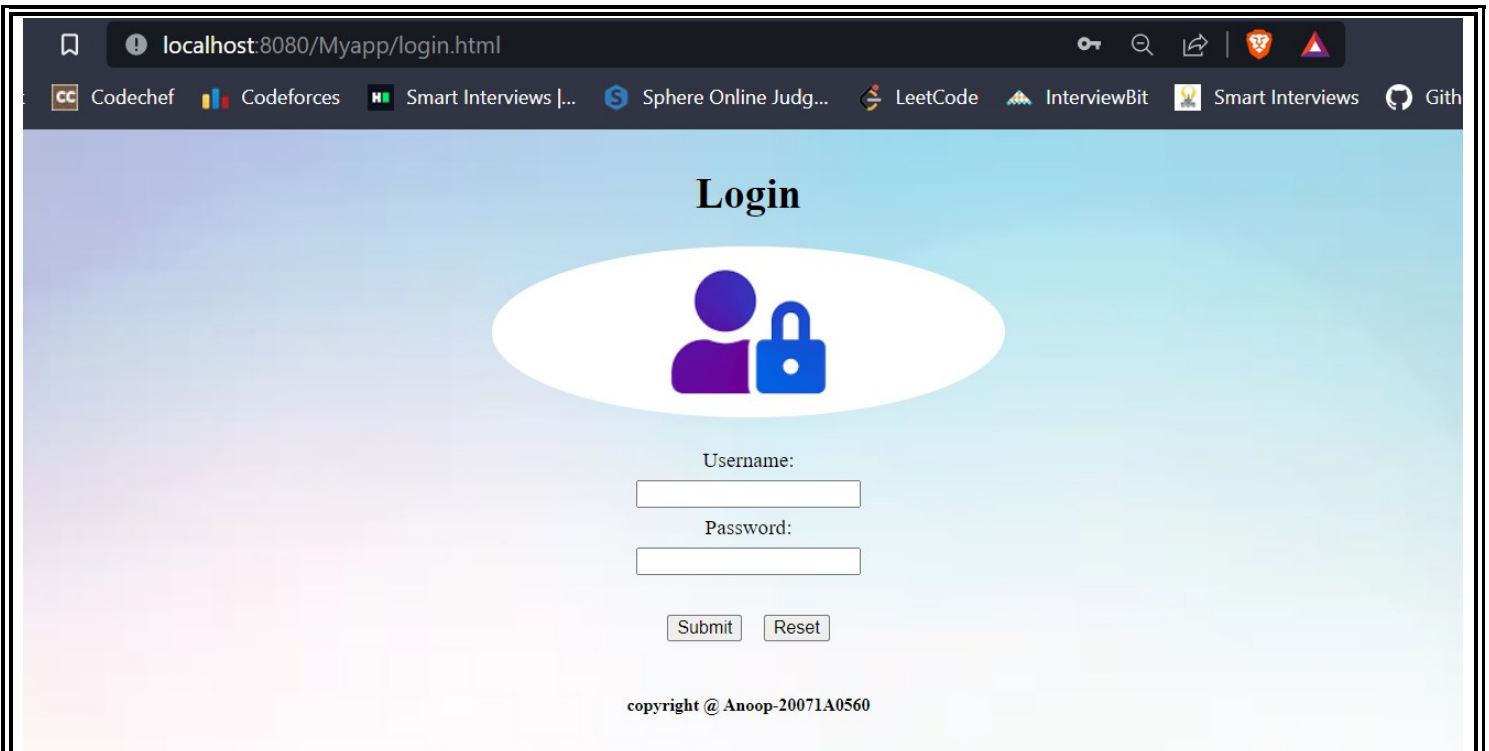
**Output:**



Registering a user

**Login**

Username:

Password:

Submit    Reset

copyright @ Anoop-20071A0560

After Successful Registration redirected to login page

Authenticate the user when he submits the login form using the user name and password from the database.

**Login.html:**

<!DOCTYPE html>

<html>

<head>

　　<link rel="stylesheet" href="login.css" />

</head>

<body>

<h1 class="heading">Login</h1>

<img src="https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcT3Mclb0NdAfReSwkqWDtxIh2Oc4vEyPMYzeg&usqp=CAU" />

<form class="loginform" align="center" name="myform" action="http://localhost:8080/Myapp/AuthLogin" method="get" onSubmit="return validation()">

  <label for="fname">Username:</label><br>

```html
 <input type="text" id="fname" name="fname" required minlength="6"><br>
 <label for="pass">Password:</label><br>
 <input type="password" id="pass" name="pass" required minlength="6"><br><br>
 <input type="submit" value="Submit">
 <input type="submit" value="Reset">
</form>


<script type="text/javascript">
function validation(){
                    let uname=document.myform.fname.value;
                    let unamereq=/^[A-Za-z]+$/;
                    if(uname.match(unamereq)){
                            return true;
                    }
                    else{ window.alert("ONLY alphabets");return false;}


            }
</script>
</body>
</html>
```

**AuthLogin.java:**

```java
import java.io.*;
import java.util.*;
import javax.sql.*;
import javax.servlet.*;
import javax.servlet.http.*;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
```

```java
public class AuthLogin extends HttpServlet{
public void doGet(HttpServletRequest req, HttpServletResponse res) throws IOException,ServletException{
  res.setContentType("text/html");
  PrintWriter out = res.getWriter();
  //get the variables entered in the form
  String fname = req.getParameter("fname");
  String pass = req.getParameter("pass");
  Connection conn=null;
  Statement stmt = null;
  try {
  // Load the database driver
  Class.forName("com.mysql.jdbc.Driver");
  // Get a Connection to the database
  conn= DriverManager.getConnection("jdbc:mysql://localhost:3306/wt_db", "root", "root");
  stmt = conn.createStatement();
  String sql = "SELECT * FROM users WHERE name='" + fname + "' AND password='" + pass + "'";
     ResultSet rs = stmt.executeQuery(sql);
     if (rs.next()) {
      // User is authenticated, redirect to home page
         out.println(" Hello : ");
         out.println(" '"+fname+"'");
         res.sendRedirect("home.html");
     } else {
      // User is not authenticated, display error message
      out.println("Invalid username or password");}}
  catch(ClassNotFoundException e){
  out.println("Couldn't load database driver: "
  + e.getMessage());}
```

```
catch(SQLException e){

out.println("SQLException caught: "

+ e.getMessage());}

catch (Exception e){

out.println(e);}

finally {

// Always close the database connection.

try {

if (conn != null) conn.close();}

catch (SQLException ignored){

out.println(ignored);}}}}
```

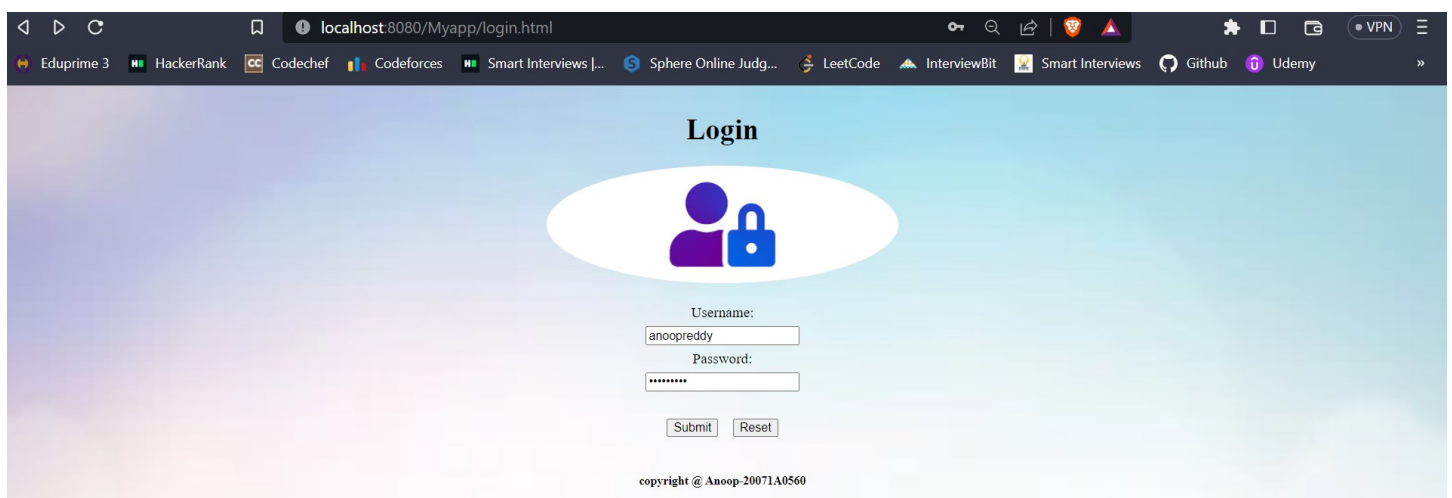**Web.xml:**

```
<servlet>

        <servlet-name>AuthLogin</servlet-name>

        <servlet-class>AuthLogin</servlet-class>

</servlet>

<servlet-mapping>

        <servlet-name>AuthLogin</servlet-name>

        <url-pattern>/AuthLogin</url-pattern>

</servlet-mapping>
```

Output:



Authenticating user

Redirecting a valid user to Home page



Authenticating a user

Invalid username or password

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Invalid user

## WEEK 10

Create a table with attributes (emp_id, emp_name, job_name, joining_date, salary, department)

I. Write a JSP program to display the names of the employee, empid, salary and department joined after the given input joining date(The input joining date must be given from the HTML form)

**Html file:**

```
<html>
<head>
        <title>Employee Details</title>
</head>
<body>
        <center><h1>Employee Details</h1>
        <form method="post" action="http://localhost:8080/Myapp/week101.jsp">
                <label>Joining Date (YYYY-MM-DD): </label>
                <input type="date" name="joining_date"><br><br>
                <input type="submit" value="Submit">
        </form>
        <br><br><br><h3>Copyright @ Anoop-20071A0560</h3></center>
</body>
</html>
```

**Jsp file:**

```
<html>
<head>
 <title>Users list</title>
</head>
<body>
 <%@ page import = "java.sql.*" %>
 <%
        Class.forName("com.mysql.jdbc.Driver");
```

```jsp
    Connection conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/wt_db","root","root");

        String joiningDate = request.getParameter("joining_date");

     String query = "SELECT emp_name, emp_id, salary, department FROM employees WHERE joining_date
= ?";

        PreparedStatement ps = conn.prepareStatement(query);

        ps.setString(1, joiningDate);

        ResultSet rs = ps.executeQuery();

        if(rs.next()) {
%>

        <center><table border=1 cellpadding=5>

                <tr>

                        <th>Name</th>

                        <th>Employee ID</th>

                        <th>Salary</th>

                        <th>Department</th>

                </tr>

                <%

                        do {

                                String empName = rs.getString("emp_name");

                                int empId = rs.getInt("emp_id");

                                int salary = rs.getInt("salary");

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

                %>

                <tr>

                        <td><%= empName %></td>

                        <td><%= empId %></td>

                        <td><%= salary %></td>

                        <td><%= department %></td>

                </tr>

                <%

                        } while(rs.next());

                %>
```

```
                    </table>
        <%
                } else {
                        out.println("No results found");}
                rs.close();
                ps.close();
                conn.close();
        %><h3>Copyright @ Anoop-20071A0560</h3></center>
</body>
</html>
```

**Output:**



localhost:8080/Myapp/week101.html

ank   Codechef   Codeforces   Smart Interviews |...   Sphere Online Judg...   LeetCode   InterviewBit   Smart Interviews

**Employee Details**

Joining Date (YYYY-MM-DD): 12-12-2020

Submit

**Copyright @ Anoop-20071A0560**

Checking for Employees joined on that date

# Employee Details

| Name | Employee ID | Salary | Department |
|------|-------------|--------|------------|
| ravi | 1 | 20000 | cse |
| Kiran | 2 | 30000 | ece |

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Employee details

# Employee Details

Joining Date (YYYY-MM-DD): 12-12-2009

Submit

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Checking for Employees joined on that date

No results found

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Employees List

II. Write a JSP program to display the names of the employee with empid, salary, department and the number of days worked from their joining date to till date.

**Html file:**

```
<html>
<head>
        <title>Employee Details</title>
</head>
<body>
        <center><h1>Employee Details</h1>
        <form method="post" action="http://localhost:8080/Myapp/week101.jsp">
                <label>Joining Date (YYYY-MM-DD): </label>
                <input type="date" name="joining_date"><br><br>
                <input type="submit" value="Submit">
        </form>
        <br><br><br><h3>Copyright @ Anoop-20071A0560</h3></center>
</body>
</html>
```

**Jsp file:**

```
<html>
<head>
 <title>Users list</title>
</head>
<body>
 <%@ page import = "java.sql.*,java.time.LocalDate, java.time.temporal.ChronoUnit" %>
 <%
        Class.forName("com.mysql.jdbc.Driver");
    Connection conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/wt_db","root","root");
        String joiningDate = request.getParameter("joining_date");
```

```jsp
    String query = "SELECT emp_name, emp_id, salary, department, joining_date FROM employees WHERE
joining_date = ?";

        PreparedStatement ps = conn.prepareStatement(query);

        ps.setString(1, joiningDate);

        ResultSet rs = ps.executeQuery();

        if(rs.next()) {
%>
        <center><h1>Employee Details</h1>
            <table border=1 cellpadding=5>
            <tr>
                    <th>Name</th>
                    <th>Employee ID</th>
                    <th>Salary</th>
                    <th>Department</th>
                    <th>Days Worked</th>
            </tr>
            <%
                do {
                        String empName = rs.getString("emp_name");
                        int empId = rs.getInt("emp_id");
                        int salary = rs.getInt("salary");
                        String department = rs.getString("department");
            %>
                <tr>
                    <td><%= empName %></td>
                    <td><%= empId %></td>
                    <td><%= salary %></td>
                    <td><%= department %></td>
                    <td>
                    <% LocalDate joining_date = rs.getDate("joining_date").toLocalDate();
                            LocalDate today = LocalDate.now();
                            long days_worked = ChronoUnit.DAYS.between(joining_date, today);
```

```
                    out.println(days_worked);%></td></tr><%} while(rs.next());
        %></table><%} else {
                    out.println("No results found");}
            rs.close();
            ps.close();
            conn.close();
        %><h3>Copyright @ Anoop-20071A0560</h3></center>
</body>
</html>
```

**Output:**



Entering the date in html page

# Employee Details

| Name  | Employee ID | Salary | Department | Days Worked |
|-------|-------------|--------|------------|-------------|
| ravi  | 1           | 20000  | cse        | 862         |
| Kiran | 2           | 30000  | ece        | 862         |

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Employee details

## WEEK 11

Create a table book (book_id, booktitle, author, price)

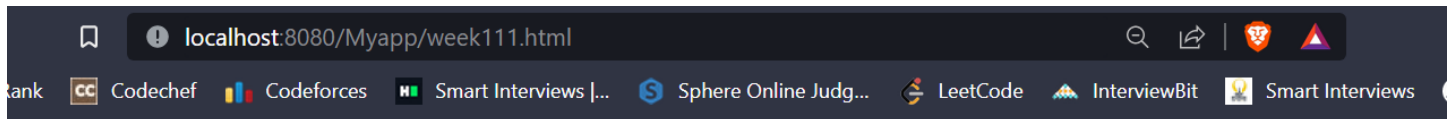I. Write a JSP program to insert the data to the mysql database from the HTML form.

**Html file:**

```
<html>
<body>
<center>
<form name="Form1" method="get" action="http://localhost:8080/Myapp/week111.jsp">
<h1>Registration form</h1>
Book ID:   <input type="text" name="bookId"><br><br>
Book Title:<input type="text" name="bookname"><br><br>
Author:   <input type="text" name="author"><br><br>
Price:  <input type="text" name="price"><br><br>
<input type=submit value="submit">
</form><br><br>
   <h4>Copyright @ Anoop-20071A0560</h4>
</center>
</body>
</html>
```

**Jsp file:**

```
<%@ page import = "java.sql.*" %>
<%
  String bid = request.getParameter("bookId");
  String bname = request.getParameter("bookname");
  String author =request.getParameter("author");
  String price = request.getParameter("price");
  Class.forName("com.mysql.jdbc.Driver");
  Connection conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/wt_db","root","root");
```

```
String sql = "insert into book values (?,?,?,?)";

PreparedStatement pst = conn.prepareStatement(sql);

pst.setString(1, bid);

pst.setString(2, bname);

pst.setString(3, author);

pst.setString(4, price);

int numRows= pst.executeUpdate();

if(numRows==0){out.print("Unable to Insert");}

else{out.print("Book details Inserted");}

%>

  <h4>Copyright @ Anoop-20071A0560</h4>

<%

 pst.close();

 conn.close();

%>
```

**Output:**



Registration form

Book ID: 5

Book Title: Core Servlets and Java Ser

Author: Marty Hall

Price: 1000

submit

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Entering Book Details

Book details stored into database

II. Write a JSP program to retrieve the data from the table book given the name of the author. If author is not found, your program must display no author is found.

**Html file:**

<html>

<head>

      <title>Book Details</title>

</head>

<body>

      <center><h1>Book Details</h1>

      <form method="post" action="http://localhost:8080/Myapp/week112.jsp">

          <label>Author Name: </label>

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

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

      </form>

      <br><br><br><h3>Copyright @ Anoop-20071A0560</h3></center>

</body>

</html>

**Jsp file:**

<html>

<head>

```html
  <title>Books list</title>
</head>
<body>

<%@ page import = "java.sql.*,java.time.LocalDate, java.time.temporal.ChronoUnit" %>
<%
        Class.forName("com.mysql.jdbc.Driver");
    Connection conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/wt_db","root","root");
        String author = request.getParameter("author");
    String query = "SELECT book_id, booktitle, author, price FROM book WHERE author = ?";
        PreparedStatement ps = conn.prepareStatement(query);
        ps.setString(1, author);
        ResultSet rs = ps.executeQuery();
        if(rs.next()) {
%>
        <center><h1>Book Details of Author <%=author%> are: </h1>
                <table border=1 cellpadding=5>
                <tr>
                        <th>Book ID</th>
                        <th>Name of the Book</th>
                        <th>Price</th>
                </tr>
                <%
                do {
                        String bookName = rs.getString("booktitle");
                        int bookId = rs.getInt("book_id");
                        int price = rs.getInt("price");
                %>
                        <tr>
                        <td><%= bookId %></td>
                        <td><%= bookName %></td>
```
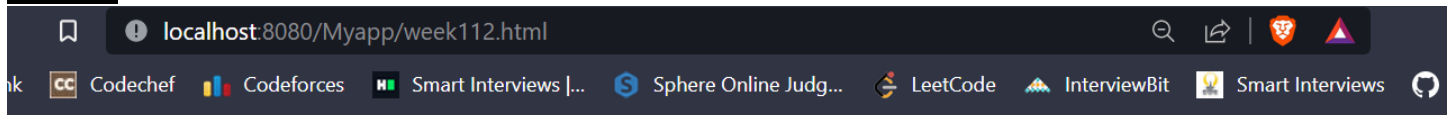
```
                <td><%= price %></td>
        </tr>
    <%
        } while(rs.next());
    %>
        </table>
    <%
        } else {
            out.println("No author is found");
        }
        rs.close();
        ps.close();
        conn.close();
    %><h3>Copyright @ Anoop-20071A0560</h3></center>
</body>
</html>
```

**Output:**

localhost:8080/Myapp/week112.html

nk   CC Codechef   Codeforces   Smart Interviews |...   Sphere Online Judg...   LeetCode   InterviewBit   Smart Interviews

## Book Details

Author Name: ABCD

Submit

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Entering Author name

## Book Details of Author ABCD are:

| Book ID | Name of the Book | Price |
|---------|------------------|-------|
| 1 | Web Tech | 240 |

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Book Details

## Book Details

Author Name: lmnop

Submit

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Entering Author name

No author is found

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No author found

III. Write a JSP program to retrieve different authors of the same book given the title of the book in the HTML form.

**Html file:**

<html>

<head>

```html
        <title>Book Details</title>
</head>
<body>
        <center><h1>Book Details</h1>
        <form method="post" action="http://localhost:8080/Myapp/week113.jsp">
                <label>Name of the Book: </label>
                <input type="text" name="book"><br><br>
                <input type="submit" value="Submit">
        </form>
        <br><br><br><h3>Copyright @ Anoop-20071A0560</h3></center>
</body>
</html>
```

**Jsp file:**

```html
<html>
<head>
 <title>Books list</title>
</head>
<body>

<%@ page import = "java.sql.*,java.time.LocalDate, java.time.temporal.ChronoUnit" %>
<%
        Class.forName("com.mysql.jdbc.Driver");
    Connection conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/wt_db","root","root");
        String book = request.getParameter("book");
    String query = "SELECT book_id, booktitle, author, price FROM book WHERE booktitle = ?";
        PreparedStatement ps = conn.prepareStatement(query);
        ps.setString(1, book);
        ResultSet rs = ps.executeQuery();
```

```jsp
        if(rs.next()) {
%>
        <center><h1>Details of the Book <%=book%> are: </h1>
            <table border=1 cellpadding=5>
            <tr>
                    <th>Book ID</th>
                    <th>Author of the Book</th>
                    <th>Price</th>
            </tr>
            <%
                do {
                        String author = rs.getString("author");
                        int bookId = rs.getInt("book_id");
                        int price = rs.getInt("price");
            %>
                <tr>
                        <td><%= bookId %></td>
                        <td><%= author %></td>
                        <td><%= price %></td>
                </tr>
            <%
                } while(rs.next());
            %>
                </table>
            <%
                } else {
                        out.println("No book is found");
                }
                rs.close();
                ps.close();
                conn.close();
```

%><h3>Copyright @ Anoop-20071A0560</h3></center>

</body>

</html>

**Output:**

localhost:8080/Myapp/week113.html

Codechef  Codeforces  Smart Interviews |...  Sphere Online Judg...  LeetCode  InterviewBit  Smart Interviews

## Book Details

Name of the Book: Web Tech

Submit

**Copyright @ Anoop-20071A0560**

Entering book name

localhost:8080/Myapp/week113.jsp

nk  Codechef  Codeforces  Smart Interviews |...  Sphere Online Judg...  LeetCode  InterviewBit  Smart Interviews

## Details of the Book Web Tech are:

| Book ID | Author of the Book | Price |
|---------|--------------------|-------|
| 1 | ABCD | 240 |
| 2 | xyz | 240 |

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Book details