

Practical 01

Database Creation

```
mysql> create database SSP;
Query OK, 1 row affected (0.01 sec)

mysql> USE DATABASE SSP;
ERROR 1049 (42000): Unknown database 'database'
mysql> USE SSP;
Database changed
mysql> CREATE TABLE Students(id int, name varchar(50), email varchar(100),branch varchar(20));
Query OK, 0 rows affected (0.02 sec)
```

Insertion

```
package p1;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
public class P1a {
    public static void main(String[] args) throws Exception {
        Class.forName("com.mysql.cj.jdbc.Driver");
        System.out.println("Driver loaded");

        Connection
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/SSP","root","12345");//class;method
        System.out.println("Connection created");
        PreparedStatement ps=con.prepareStatement("insert into Students
values(3055,'Maithili','may@gmail.com','CSE')");//ps,con=object
        System.out.println("Statement created");
        int i=ps.executeUpdate();
        if (i>0)
            System.out.println("Record created");
        else
            System.out.println("Insertion failed");
    } }
```

```
Driver loaded
Connection created
Statement created
Record created
```

```
mysql> desc Students;
+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| id    | int           | YES  |     | NULL    |       |
| name  | varchar(50)   | YES  |     | NULL    |       |
| email | varchar(100)  | YES  |     | NULL    |       |
| branch | varchar(20)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+
4 rows in set (0.01 sec)

mysql> select * from Students;
Empty set (0.00 sec)

mysql> select * from Students;
+-----+-----+-----+-----+
| id | name      | email          | branch |
+-----+-----+-----+-----+
| 3055 | Maithili | may@gmail.com | CSE    |
+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> select * from Students;
```

Updation

```
package pl;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
public class P1b {
    public static void main(String[] args) throws Exception {
        Class.forName("com.mysql.cj.jdbc.Driver");
        System.out.println("Driver loaded");
        Connection
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/SSP","root","12345");
        System.out.println("Connection created");
        PreparedStatement ps=con.prepareStatement("UPDATE students SET
email='maithili@gmail.com' WHERE id=3055");
        System.out.println("Statement created");
        int i=ps.executeUpdate();
        if (i>0)
            System.out.println("Record updated");
        else
            System.out.println("Updation failed");
        }
}
```

```
Driver loaded
Connection created
Statement created
Record updated
```

```
mysql> select * from Students;
+-----+-----+-----+-----+
| id    | name    | email                | branch |
+-----+-----+-----+-----+
| 3055  | Maithili | maithili@gmail.com   | CSE    |
+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

Deletion

```
package p1;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
public class P1c {public static void main(String[] args) throws Exception {
    Class.forName("com.mysql.cj.jdbc.Driver");
    System.out.println("Driver loaded");
    Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/SSP","root","12345");
    System.out.println("Connection created");
    PreparedStatement ps=con.prepareStatement("DELETE FROM students WHERE id=3055;");
    System.out.println("Statement created");
    int i=ps.executeUpdate();
    if (i>0)
        System.out.println("Record deleted");
    else
        System.out.println("Deletion failed");
}
```

```
Driver loaded
Connection created
Statement created
Record deleted
```

```
mysql> select * from Students;
Empty set (0.00 sec)
```

PRACTICAL 2

Select query in table, using eclipse IDE

```
package p1;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.Statement;
public class P2a {
public static void main(String[] args) throws Exception {

        Class.forName("com.mysql.cj.jdbc.Driver");
        System.out.println("Driver loaded");
        Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/SSP","root","12345");
        System.out.println("Connection created");
        Statement statement = con.createStatement();
        PreparedStatement ps=con.prepareStatement("insert into Students
values(3055,'Maithili','may@gmail.com','CSE')");
        System.out.println("Statement created");
        int i=ps.executeUpdate();
        if (i>0)
            System.out.println("Record created");
        else
            System.out.println("Insertion failed");
        ResultSet rs = statement.executeQuery("select * from students");
        while(rs.next())
            System.out.println(" | " + rs.getInt(1) + " | " + rs.getString(2)+" | " + rs.getString(3)+" | " + rs.getString(4)+" |
");
        rs.close();
        statement.close();
    }
}
```

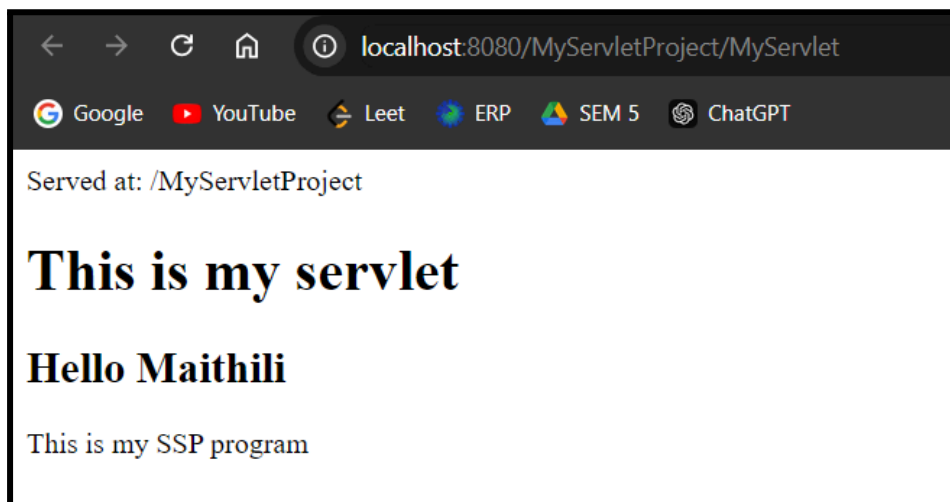
```
Driver loaded
Connection created
Statement created
Record created
 | 3055 | Maithili | may@gmail.com | CSE |
```

PRACTICAL 03

PRACTICAL 04

```
package may;
import java.io.IOException;
import java.io.PrintWriter;
import jakarta.servlet.ServletException;
import jakarta.servlet.annotation.WebServlet;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
@WebServlet("/MyServlet")
public class MyServlet extends HttpServlet {
    private static final long serialVersionUID = 1L;
    public MyServlet() {
        super();
    }
    protected void doGet(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
        response.getWriter().append("Served at: ").append(request.getContextPath());
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
        out.println("<html><body><h1>");
        out.println("This is my servlet</h1>");
        out.println("<h2>Hello Maithili</h2>");
        out.println("This is my SSP program");
        out.println("</body></html>");
    }
}
```

Output:



Index.html

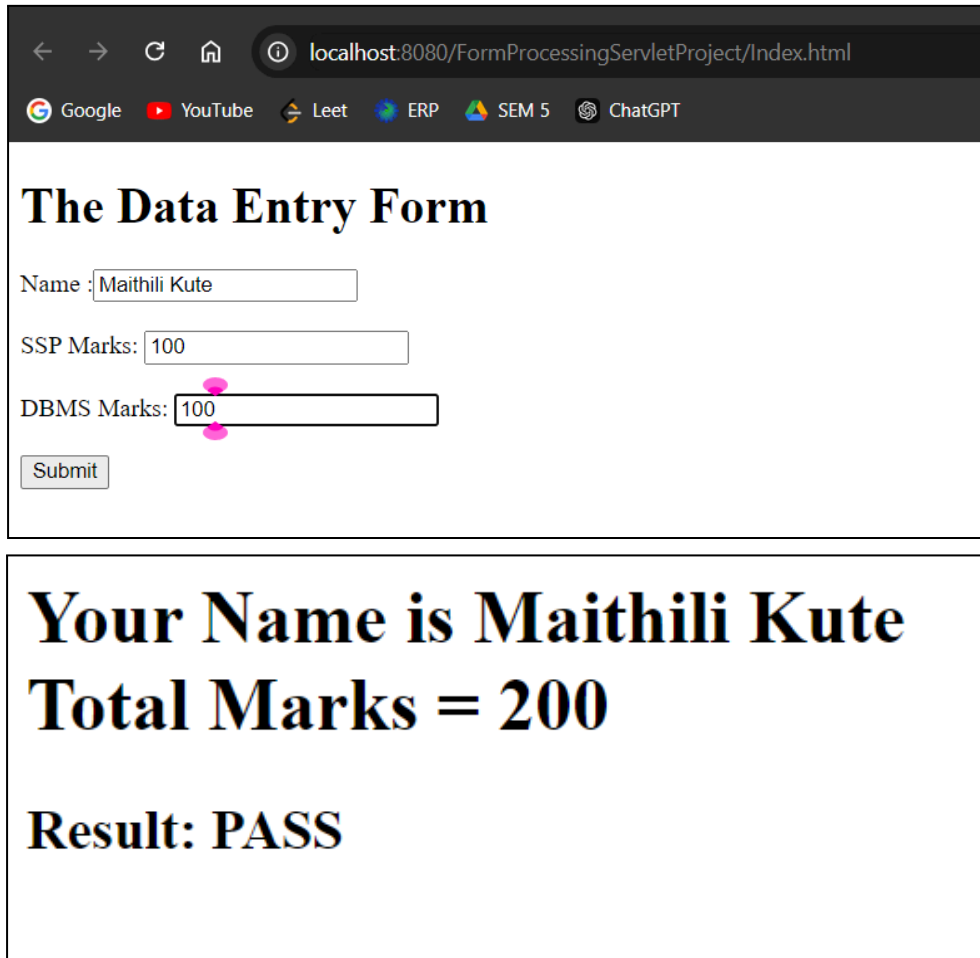
```
<!DOCTYPE html>
<html>
<head>
  <meta charset="UTF-8">
  <title>Data from User</title>
</head>
<body>
  <h1>The Data Entry Form</h1>
  <form action="ProcessServlet" method="get">
    Name   :<input type="text" name="txtName"><br><br>
    SSP Marks: <input type="text" name="sspM1"><br><br>
    DBMS Marks: <input type="text" name="dbmsM1"><br><br> <!-- Ensure this matches -->
    <input type="submit" value="Submit">
  </form>
</body>
</html>
```

ProcessServlet.java

```
package may;
import java.io.IOException;
import java.io.PrintWriter;
import jakarta.servlet.ServletException;
import jakarta.servlet.annotation.WebServlet;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
@WebServlet("/ProcessServlet") // This maps the servlet to the /ProcessServlet URL
public class ProcessServlet extends HttpServlet{
    private static final long serialVersionUID = 1L;
    public ProcessServlet() {
        super();
    }
    protected void doGet(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
        // Retrieve form parameters
        String s1 = request.getParameter("txtName");
        String s2 = request.getParameter("sspM1");
        String s3 = request.getParameter("dbmsM1");
        out.println("<html><body><h1>");
        out.println("Your Name is " + s1);
        // Parse the marks as integers and calculate the total
        int m1 = Integer.parseInt(s2);
        int m2 = Integer.parseInt(s3);
        int total = m1 + m2;
        out.println("<br>Total Marks = " + total);
        // Determine pass/fail result
        String res = (m1 >= 40 && m2 >= 40) ? "PASS" : "FAIL";
```

```
out.println("<h2>Result: " + res + "</h2>");
out.println("</body></html>");
}
// Handles POST requests by delegating to doGet
protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
    doGet(request, response);
}
```

OUTPUT:



The screenshot shows a web browser window with the address bar displaying 'localhost:8080/FormProcessingServletProject/Index.html'. The browser's toolbar includes icons for Google, YouTube, Leet, ERP, SEM 5, and ChatGPT. The main content area is divided into two sections. The top section, titled 'The Data Entry Form', contains three input fields: 'Name' with the value 'Maithili Kute', 'SSP Marks' with the value '100', and 'DBMS Marks' with the value '100'. A 'Submit' button is located below these fields. The bottom section displays the results of the form submission in a large, bold font: 'Your Name is Maithili Kute', 'Total Marks = 200', and 'Result: PASS'.

The Data Entry Form

Name :

SSP Marks:

DBMS Marks:

Your Name is Maithili Kute

Total Marks = 200

Result: PASS

Practical 5

index.html

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>index</title>
</head>
<body>
  <pre>
    <a href="Login.html">Login</a>
    <a href="LogoutServlet">Logout</a>
    <a href="/ProfileServlet">Profile</a>
  </pre>
</body>
</html>
```

[Login](#)
[Logout](#)
[Profile](#)

Login.html

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Login</title>
</head>
<body>
  <form action = "/LoginServlet" method="post">
    <pre>
      UserId:<input type = "text" name = "userid">
      Password:<input type = "password" name = "password">
      <input type="submit" value="submit">
    </pre>
  </form>
</body>
</html>
```



```

        protected void doGet(HttpServletRequest request, HttpServletResponse response)
            throws ServletException, IOException
        {
            PrintWriter out = response.getWriter();
            HttpSession session = request.getSession(false);
            session.invalidate();
            out.println("<h2>You are successfully logout</h2>");
            response.setContentType("text/html");
            out.println("<a href='index.html'>Index</a>");
        }
    }
}

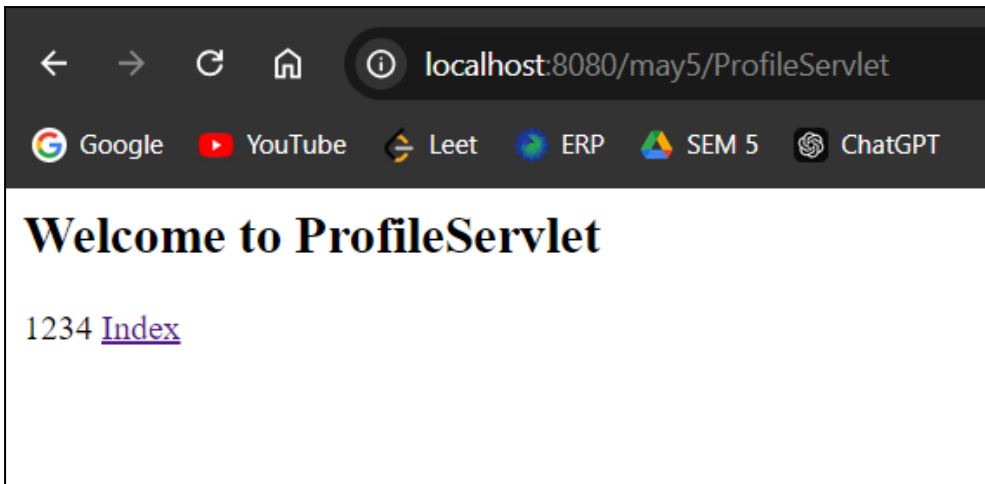
```

ProfileServlet.java

```

package p5;
import jakarta.servlet.ServletException;
import jakarta.servlet.annotation.WebServlet;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
import jakarta.servlet.http.HttpSession;
import java.io.IOException;
import java.io.PrintWriter;
@WebServlet("/ProfileServlet")
public class ProfileServlet extends HttpServlet {
    private static final long serialVersionUID = 1L;
    @Override
    protected void service(HttpServletRequest request, HttpServletResponse response )
        throws ServletException, IOException {
        PrintWriter out = response.getWriter();
        HttpSession session= request.getSession(false);
        if(session!=null)
        {
            String userid = (String) session.getAttribute("userid");
            out.println("<h2>Welcome to ProfileServlet</h2>" +userid);
        }
        else
        { response.sendRedirect("Login.html"); }
        response.setContentType("text/html");
        out.println("<a href='index.html'>Index</a>");
    }
}

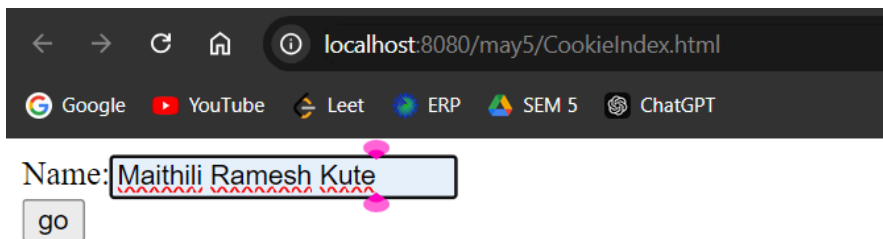
```



5.2

CookieIndex.html

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Cookie Index</title>
</head>
<body>
<form action = "servlet1" method="post">
Name:<input type="text" name="name"/><br>
<input type="submit" value="go"/>
</form>
</body>
</html>
```



← → ↻ 🏠 ⓘ localhost:8080/may5/CookieIndex.html

🔍 Google 📺 YouTube 📖 Leet 🌐 ERP 📁 SEM 5 🗯 ChatGPT

Name:

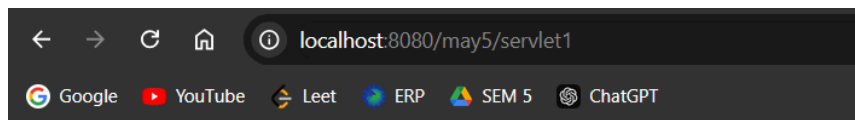
Servlet1.java

```
package p5;
import java.io.IOException;
import java.io.PrintWriter;
import jakarta.servlet.ServletException;
import jakarta.servlet.annotation.WebServlet;
import jakarta.servlet.http.Cookie;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
@WebServlet("/servlet1")
public class servlet1 extends HttpServlet {
    private static final long serialVersionUID = 1L;
    @Override
    protected void service(HttpServletRequest request, HttpServletResponse response) throws ServletException,
    IOException {
        try {
            // Set the response content type to HTML
            response.setContentType("text/html");
```

```

    PrintWriter out = response.getWriter();
    // Retrieve the 'name' parameter from the request
    String n = request.getParameter("name");
    // Start writing the HTML output
    out.print("<html><body>");
    // Display the welcome message
    if (n != null && !n.isEmpty()) {
        out.print("Welcome " + n + "<br>");
    } else {
        out.print("Welcome, Guest!<br>");
    }
    // Create a cookie and add it to the response
    Cookie ck = new Cookie("uname", n);
    response.addCookie(ck);
    // Create a form with a submit button
    out.print("<form action='servlet2' method='POST'>");
    out.print("<input type='submit' value='Go'>"); // Correctly rendered Go button
    out.print("</form>");
    // End the HTML structure
    out.print("</body></html>");
    // Close the output stream
    out.close();
} catch (Exception e) {
    // Handle any exceptions and print the error to the server console
    System.out.println(e);
}
}
}

```



Welcome may

Go

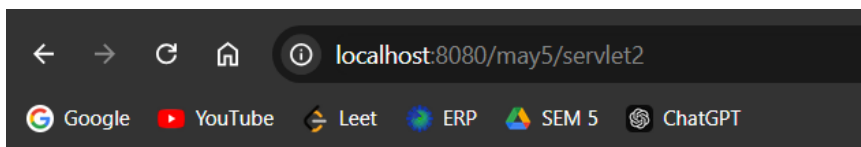
Servlet2.java

```

package p5;
import java.io.PrintWriter;
import jakarta.servlet.annotation.WebServlet;
import jakarta.servlet.http.Cookie;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
@WebServlet("/servlet2")
public class servlet2 extends HttpServlet{
    private static final long serialVersionUID = 1L;
    @Override

```

```
public void service (HttpServletRequest request, HttpServletResponse response){
    try{
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
        Cookie ck[]=request.getCookies();
        for(int i=0;i<=ck.length;i++)
        {
            out.print("Hello "+ck[i].getValue());
        }
        out.close();
    }catch(Exception e){System.out.println(e);}
}
```

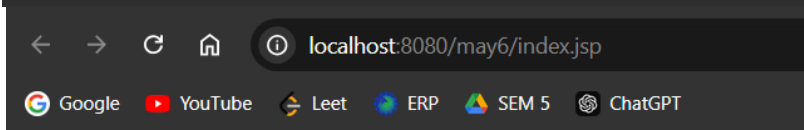


Hello 9E0798E8DFE205FB22E7977ED2C1A960Hello may

index.jsp

```
<%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>
<%@ page import="jakarta.servlet.http.*, jakarta.servlet.*" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Index</title>
</head>
<body>
<div class="container">
<h1>Welcome! Please Login or Register</h1>

<!-- Display logout message if exists -->
<%
String logoutMessage = (String) request.getSession().getAttribute("logoutMessage");
if (logoutMessage != null) {
%>
<div class="alert alert-success">
<%= logoutMessage %>
</div>
<%
request.getSession().removeAttribute("logoutMessage");
}
%>
<a href="login.jsp" class="btn btn-primary">Login</a>
<a href="register.jsp" class="btn btn-secondary">Register</a>
</div>
</body>
</html>
```

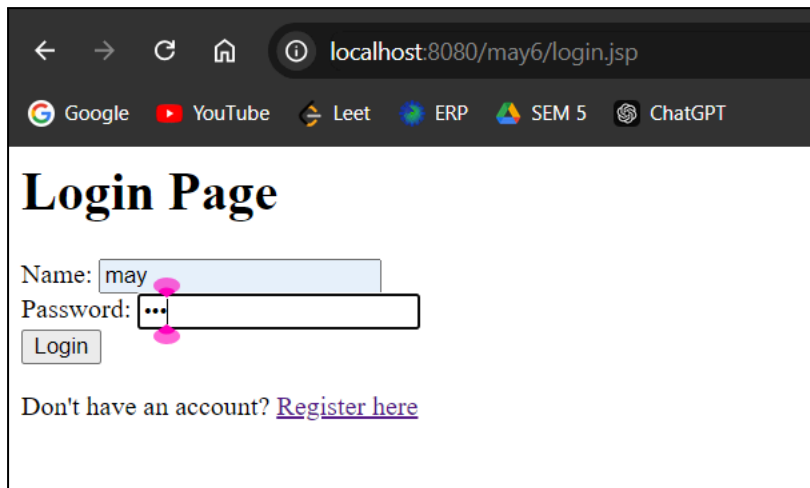


Welcome! Please Login or Register

[Login](#) [Register](#)

\
login.jsp

```
<html>
<head>
  <title>Login</title>
</head>
<body>
  <h1>Login Page</h1>
  <form method="post" action="LoginDatabase">
    Name: <input type="text" name="name" required><br>
    Password: <input type="password" name="password" required><br>
    <input type="submit" value="Login">
  </form>
  <p>Don't have an account? <a href="register.jsp">Register here</a></p>
</body>
</html>
```



← → ↻ 🏠 ⓘ localhost:8080/may6/login.jsp

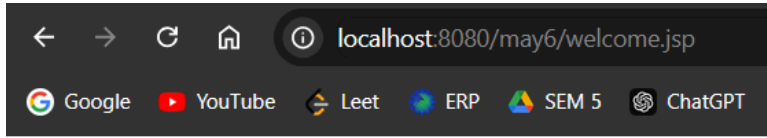
🔍 Google 📺 YouTube 🚀 Leet 🌐 ERP 📊 SEM 5 🗨️ ChatGPT

Login Page

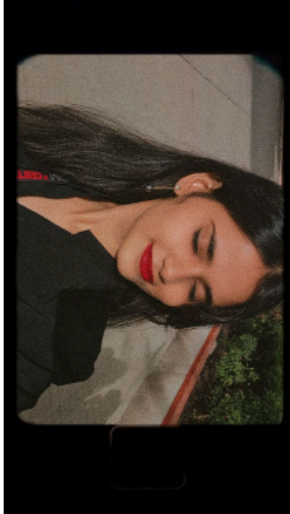
Name:

Password:

Don't have an account? [Register here](#)



Welcome, may!



[Logout](#)

Practical 7

Banner.jsp

```
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>JSP-DB-2 Project Development</title>
</head>
<body>
<h1 align="center"> Welcome to My page </h1>
<hr>
<h2>MGM's JNEC, Aurangabad.
<%=new java.util.Date() %>
</h2>
</body>
</html>
```

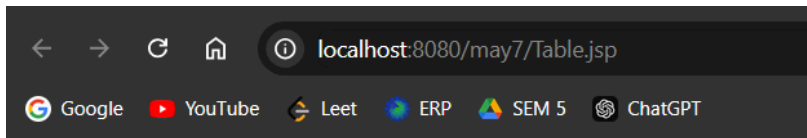


Welcome to My page

MGM's JNEC, Aurangabad. Tue Oct 08 11:36:01 IST 2024

Table.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1"%>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Number Table</title>
</head>
<body>
<table border="1">
<% for (int row = 1; row < 11; row++) { %>
<tr>
<% for (int column = 1; column < 11; column++) { %>
<td><%= row * column %></td>
<% } %>
</tr>
<% } %>
</table>
</body>
</html>
```

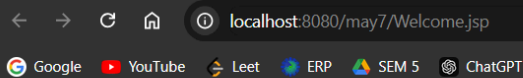


1	2	3	4	5	6	7	8	9	10
2	4	6	8	10	12	14	16	18	20
3	6	9	12	15	18	21	24	27	30
4	8	12	16	20	24	28	32	36	40
5	10	15	20	25	30	35	40	45	50
6	12	18	24	30	36	42	48	54	60
7	14	21	28	35	42	49	56	63	70
8	16	24	32	40	48	56	64	72	80
9	18	27	36	45	54	63	72	81	90
10	20	30	40	50	60	70	80	90	100

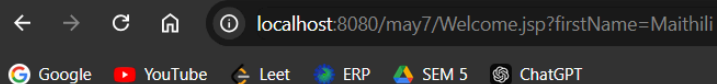
Welcome.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title> A JSP that processes "get" requests with data</title>
</head>
<body>
<% // begin scriptlet
    String name = request.getParameter( "firstName" );
    if ( name != null )
    {
%> <%-- end scriptlet to insert fixed template data --%>
```

```
<h1>
  Hello <%= name %>, <br />
  Welcome to JavaServer Pages Technology!
</h1>
<% // continue scriptlet
} // end if
else {
%> <%-- end scriptlet to insert fixed template data --%>
  <form action = "Welcome.jsp" method = "get">
    <p>Type your first name and press Submit</p>
    <p><input type = "text" name = "firstName" />
      <input type = "submit" value = "Submit" />
    </p>
  </form>
<% // continue scriptlet
} // end else
%> <%-- end scriptlet --%>
</body>
</html>
```



Type your first name and press Submit

Hello Maithili,
Welcome to JavaServer Pages Technology!

7.2

← → ↻ 🏠 ⓘ localhost:8080/may7/LoanIndex.jsp

🔍 Google 📺 YouTube 🏆 Leet 🌐 ERP 🗨️ SEM 5 🗯️ ChatGPT

Loan Details Form

Loan Amount:

Annual Interest Rate:

Number of Years:

← → ↻ 🏠 ⓘ localhost:8080/may7/LoanCalculation.jsp

🔍 Google 📺 YouTube 🏆 Leet 🌐 ERP 🗨️ SEM 5 🗯️ ChatGPT

Loan Calculation Result

Loan Amount: \$10000.0

Annual Interest Rate: 10.0%

Number of Years: 20

Monthly Payment: \$96.50

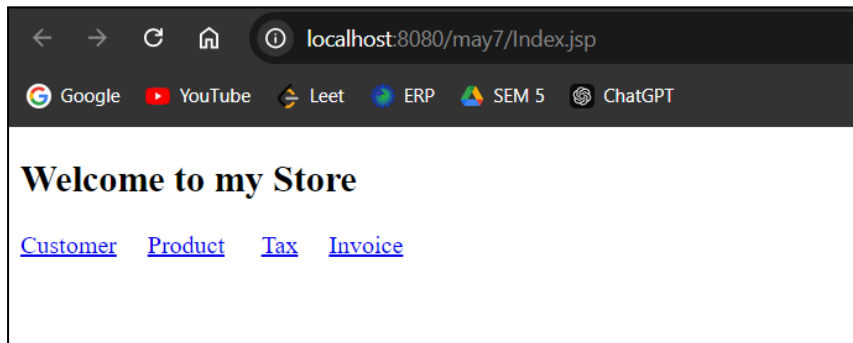
Total Payment: \$23160.52

[Go Back](#)

Practical 7.3

Index.jsp

```
<%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Index </title>
</head>
<body>
<h2> Welcome to my Store </h2>
<a href="Customer.jsp">Customer</a>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~
<a href="Product.jsp"> Product</a>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~
<a href="Tax.jsp">Tax</a>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~
<a href="Invoice.jsp">Invoice</a>
</body>
</html>
```



Customer.jsp

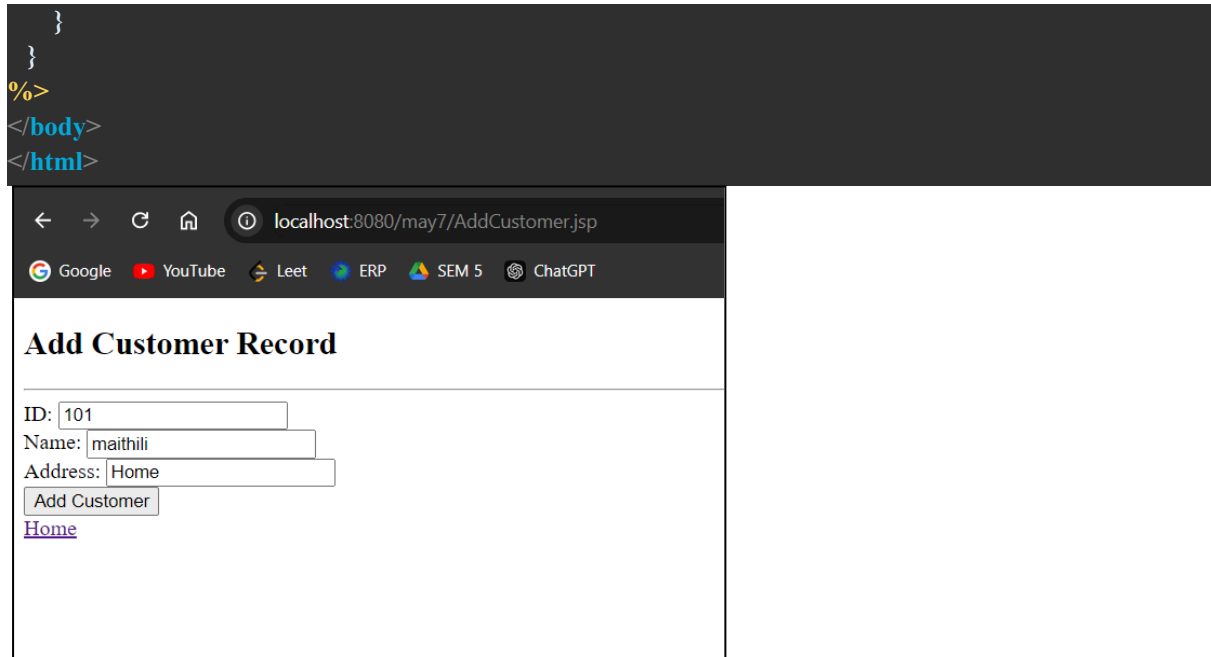
```
<%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>
<%@ page import="java.sql.*" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Customer</title>
</head>
<body>
<h4>Customer</h4>
<a href="AddCustomer.jsp">Add New</a>
<hr />
<%
    Connection con = null;
    Statement stmt = null;
    ResultSet rs = null;
    try {
        // Register the MySQL JDBC driver
        Class.forName("com.mysql.cj.jdbc.Driver");
        // Establish the connection
        con = DriverManager.getConnection("jdbc:mysql://localhost:3306/stud", "root", "12345");
        // Create a Statement
```

```

stmt = con.createStatement();
// Execute the query
String sql1 = "SELECT * FROM customer";
rs = stmt.executeQuery(sql1);

    int cnt = 1;
%>
<table border="1">
    <thead>
        <tr>
            <th>S.No.</th>
            <th>ID</th>
            <th>Name</th>
            <th>City</th>
            <th colspan="2" align="center">Action</th>
        </tr>
    </thead>
    <tbody>
        <% while (rs.next()) {
            int cid = rs.getInt("id");
            String cname = rs.getString("name");
            String address = rs.getString("address");
            %>
            <tr>
                <td><%= cnt %></td>
                <td><%= cid %></td>
                <td><%= cname %></td>
                <td><%= address %></td>
                <td><a href="EditCustomer.jsp?id=<%= cid %>">Edit</a></td>
                <td><a href="DeleteCustomer.jsp?id=<%= cid %>">Delete</a></td>
            </tr>
            <%
                cnt++;
            }
            %>
        </tbody>
    </table>
<%
} catch (ClassNotFoundException e) {
    out.println("JDBC Driver not found.");
    e.printStackTrace();
} catch (SQLException e) {
    out.println("SQL Exception occurred.");
    e.printStackTrace();
} finally {
    // Close resources
    try {
        if (rs != null) rs.close();
        if (stmt != null) stmt.close();
        if (con != null) con.close();
    } catch (SQLException e) {
        e.printStackTrace();
    }
}

```



AddCustomer.jsp

```
<%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>
<%@ page import="java.sql.*" %>
<!DOCTYPE html>
<html>
<head>
  <meta charset="UTF-8">
  <title>Add Customer</title>
</head>
<body>
  <h2>Add Customer Record</h2>
  <hr/>
  <%
    Connection con = null;
    PreparedStatement pstmt = null;
    boolean isPost = "POST".equalsIgnoreCase(request.getMethod());
    if (isPost) {
      // Handle the addition of a new customer
      try {
        int id = Integer.parseInt(request.getParameter("id"));
        String name = request.getParameter("name");
        String address = request.getParameter("address").trim();
        // Establish the connection
        con = DriverManager.getConnection("jdbc:mysql://localhost:3306/stud", "root", "12345");
        // Prepare SQL query for inserting the record
        String sql = "INSERT INTO CUSTOMER (id, name, address) VALUES (?, ?, ?)";
        pstmt = con.prepareStatement(sql);
        pstmt.setInt(1, id);
        pstmt.setString(2, name);
        pstmt.setString(3, address);
        // Execute the query
        int rowsAffected = pstmt.executeUpdate();
        if (rowsAffected > 0) {
```



```

        out.println("<p>Customer added successfully.</p>");
    } else {
        out.println("<p>Failed to add customer.</p>");
        out.println("<a href='AddCustomer.jsp'>Try Again</a>");
    }
} catch (SQLException | NumberFormatException e) {
    e.printStackTrace();
    out.println("<p>Error occurred while adding the customer.</p>");
    out.println("<a href='AddCustomer.jsp'>Try Again</a>");
} finally {
    if (pstmt != null) try { pstmt.close(); } catch (SQLException ignored) {}
    if (con != null) try { con.close(); } catch (SQLException ignored) {}
}
} else {
    // Display the form to add a new customer
%>
<form method="post" action="AddCustomer.jsp">
    ID: <input type="text" name="id" required><br>
    Name: <input type="text" name="name" required><br>
    Address: <input type="text" name="address" required><br>
    <input type="submit" value="Add Customer">
</form>
<%
}
%>
<a href="Index.jsp">Home</a>
</body>
</html>

```

← → ↻ 🏠 ⓘ localhost:8080/may7/Customer.jsp

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Customer

[Add New](#)

S.No.	ID	Name	City	Action
1	3055	maithili	Home	Edit Delete

```

<%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>
<%@ page import="java.sql.*" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>EditCustomer</title>
</head>
<body>
<h2>Edit Customer</h2>
<hr/>
<%
    Connection con = null;
    PreparedStatement pstmt = null;
    Statement stmt = null;
    ResultSet rs = null;
    String action = request.getParameter("action");
    boolean isPost = "POST".equalsIgnoreCase(request.getMethod());
    if (isPost) {
        // Handle the update operation
        try {
            int id = Integer.parseInt(request.getParameter("id"));
            String name = request.getParameter("name");
            String address = request.getParameter("address").trim();
            // Establish the connection
            con = DriverManager.getConnection("jdbc:mysql://localhost:3306/stud", "root", "12345");
            // Prepare SQL query for updating the record
            String sql = "UPDATE CUSTOMER SET name = ?, address = ? WHERE id = ?";
            pstmt = con.prepareStatement(sql);
            pstmt.setString(1, name);
            pstmt.setString(2, address);
            pstmt.setInt(3, id);
            // Execute the update query
            int rowsAffected = pstmt.executeUpdate();
            if (rowsAffected > 0) {
                out.println("<p>Customer record updated successfully.</p>");
            } else {
                out.println("<p>Failed to update customer record.</p>");
            }
        } catch (SQLException | NumberFormatException e) {
            e.printStackTrace();
            out.println("<p>Error occurred while updating the customer record.</p>");
        } finally {
            if (pstmt != null) try { pstmt.close(); } catch (SQLException ignored) {}
            if (con != null) try { con.close(); } catch (SQLException ignored) {}
        }
    } else {
        // Display the edit form
        String idParam = request.getParameter("id");
        if (idParam != null && !idParam.isEmpty()) {
            try {
                int id = Integer.parseInt(idParam);

```

```

        con = DriverManager.getConnection("jdbc:mysql://localhost:3306/stud", "root", "12345");
        stmt = con.createStatement();
        String sql1 = "SELECT * FROM CUSTOMER WHERE id = " + id;
        rs = stmt.executeQuery(sql1);
        if (rs.next()) {
            %>
            <form method="post" action="EditCustomer.jsp">
                <input type="hidden" name="action" value="update">
                ID: <input type="text" name="id" value="<%= rs.getInt("id") %>" readonly/><br>
                Name: <input type="text" name="name" value="<%= rs.getString("name") %>" /><br>
                Address: <input type="text" name="address" value="<%= rs.getString("address")
            %>" /><br>
                <input type="submit" value="Update"/>
            </form>
            <%
        } else {
            out.println("<p>No record found with ID " + id + ".</p>");
        }
    } catch (SQLException | NumberFormatException e) {
        e.printStackTrace();
        out.println("<p>Error occurred while retrieving the customer record.</p>");
    } finally {
        if (rs != null) try { rs.close(); } catch (SQLException ignored) {}
        if (stmt != null) try { stmt.close(); } catch (SQLException ignored) {}
        if (con != null) try { con.close(); } catch (SQLException ignored) {}
    }
    } else {
        out.println("<p>No ID provided for the customer record to edit.</p>");
    }
}
    %>
    <a href="Index.jsp">Home</a>
</body>
</html>

```

← → ↻ 🏠 🔄 localhost:8080/may7/EditCustomer.jsp

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Edit Customer

Customer record updated successfully.

[Home](#)

```

<%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>
<%@ page import="java.sql.*" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>DeleteCustomer</title>
</head>
<body>
<h2>Delete Customer</h2>
<hr/>
<%
    Connection con = null;
    Statement stmt = null;
    ResultSet rs = null;
    PreparedStatement pstmt = null;
    String idParam = request.getParameter("id");
    boolean isPost = "POST".equalsIgnoreCase(request.getMethod());
    if (isPost) {
        // Handle the deletion
        try {
            int id = Integer.parseInt(idParam);
            con = DriverManager.getConnection("jdbc:mysql://localhost:3306/stud", "root", "12345");
            String sql = "DELETE FROM CUSTOMER WHERE id = ?";
            pstmt = con.prepareStatement(sql);
            pstmt.setInt(1, id);
            pstmt.executeUpdate();
            out.println("<p>Record with ID " + id + " has been deleted.</p>");
        } catch (SQLException | NumberFormatException e) {
            e.printStackTrace();
            out.println("<p>Error occurred while deleting the record.</p>");
        } finally {
            if (pstmt != null) try { pstmt.close(); } catch (SQLException ignored) {}
            if (con != null) try { con.close(); } catch (SQLException ignored) {}
        }
    } else if (idParam != null && !idParam.isEmpty()) {
        // Display the record
        try {
            int id = Integer.parseInt(idParam);
            con = DriverManager.getConnection("jdbc:mysql://localhost:3306/stud", "root", "12345");
            stmt = con.createStatement();
            String sql1 = "SELECT * FROM customer WHERE id = " + id;
            rs = stmt.executeQuery(sql1);
            if (rs.next()) {
                %>
                <form method="post" action="DeleteCustomer.jsp?id=<%= id %>">
                    ID : <%= rs.getInt("id") %><br>
                    Name : <%= rs.getString("name") %><br>
                    Address: <%= rs.getString("address") %><br>
                    <input type="hidden" name="id" value="<%= rs.getInt("id") %>">
                    <input type="submit" name="submit" value="Delete"/>
                    <br><a href="Customer.jsp">Keep The Record</a>

```

```

        </form>
    <%
    } else {
        out.println("<p>No record found with ID " + id + "</p>");
    }
    } catch (SQLException | NumberFormatException e) {
        e.printStackTrace();
        out.println("<p>Error occurred while retrieving the record.</p>");
    } finally {
        if (rs != null) try { rs.close(); } catch (SQLException ignored) {}
        if (stmt != null) try { stmt.close(); } catch (SQLException ignored) {}
        if (con != null) try { con.close(); } catch (SQLException ignored) {}
    }
    } else {
        out.println("<p>No ID provided for the record to be deleted.</p>");
    }
    %>
    <a href="Index.jsp">Home</a>
</body>
</html>

```

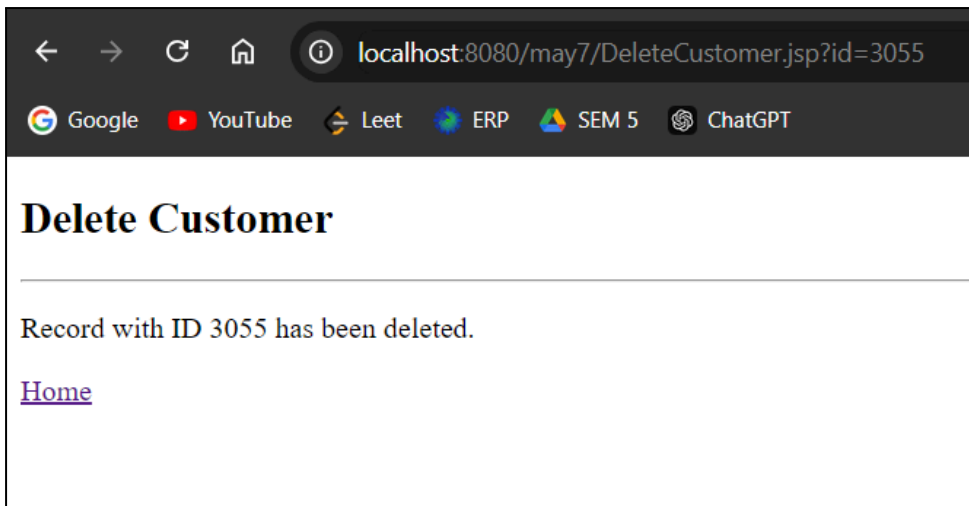
<
>
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localhost:8080/may7/DeleteCustomer.jsp?id=3055

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 ERP
 SEM 5
 ChatGPT

Delete Customer

ID : 3055
Name : Maithili
Address: Home

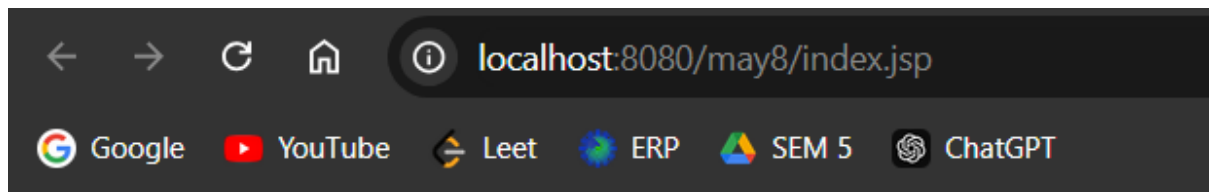
[Keep The Record](#)
[Home](#)



Practical 8

index.jsp

```
<%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
  <meta charset="UTF-8">
  <title>JavaBean</title>
</head>
<body>
  <form action=abc.jsp >
    Enter id: <input type="text" name="id"><br>
    Enter name: <input type="text" name="name"><br>
    Enter Address: <input type="text" name="address"><br>
    <input type="submit" value="Submit">
  </form>
</body>
</html>
```



Enter id:

Enter name:

Enter Address:

Abc.jsp

```
<%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
  <meta charset="UTF-8">
  <title>Student Record</title>
</head>
<body>
  <jsp:useBean id="u" class="maithili8.Student" scope="request" />
  <jsp:setProperty name="u" property="*" /> <br>
  <jsp:forward page="print.jsp"></jsp:forward>
</body>
</html>
```

Print.jsp

```

<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Student Record</title>
</head>
<body>
<jsp:useBean id="u" class="maithili8.Student" scope="request" />
<jsp:setProperty name="u" property="*" /> <br>
<h2>The Record Is</h2>
ID: <jsp:getProperty name="u" property="id" /> <br>
Name: <jsp:getProperty name="u" property="name" /> <br>
Address: <jsp:getProperty name="u" property="address" /> <br>
</body>
</html>

```

Student.java

```

package maithili8;
import java.io.Serializable;
public class Student implements Serializable {
    private static final long serialVersionUID = 1L;
    private String name;
    private String id;
    private String address;
    public String getName() {
        return name;
    }
    public void setName(String name) {
        this.name = name;
    }
    public String getId() {
        return id;
    }
    public void setId(String id) {
        this.id = id;
    }
    public String getAddress() {
        return address;
    }
    public void setAddress(String address) {
        this.address = address;
    }
}

```


The Record Is

ID: 3055

Name: Maithili

Address: Home

Practical 8.2

```
mysql> create database may8;  
Query OK, 1 row affected (0.01 sec)
```

```
mysql> use may8;  
Database changed  
mysql> create table students(  
-> id VARCHAR(50) PRIMARY KEY,  
-> name VARCHAR(100),  
-> address VARCHAR(255),  
-> email VARCHAR(100),  
-> phone VARCHAR(15),  
-> course VARCHAR(100),  
-> gender VARCHAR(10),  
-> interests VARCHAR(255)  
-> );  
Query OK, 0 rows affected (0.03 sec)
```

```
mysql> desc students;
```

Field	Type	Null	Key	Default	Extra
id	varchar(50)	NO	PRI	NULL	
name	varchar(100)	YES		NULL	
address	varchar(255)	YES		NULL	
email	varchar(100)	YES		NULL	
phone	varchar(15)	YES		NULL	
course	varchar(100)	YES		NULL	
gender	varchar(10)	YES		NULL	
interests	varchar(255)	YES		NULL	

```
8 rows in set (0.01 sec)
```

Practical 09

index.jsp

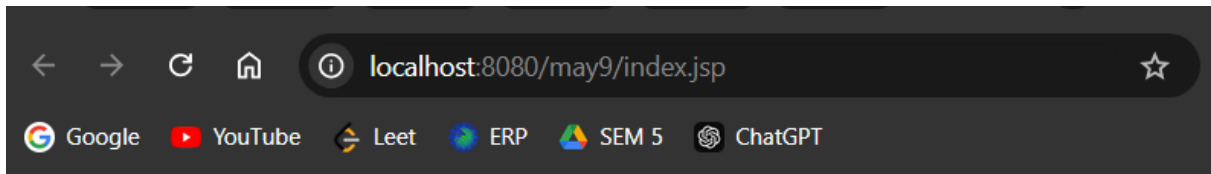
```
<%@ page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%>
<%@ taglib uri="/WEB-INF/MyLib.tld" prefix="t" %>
<!DOCTYPE html>
<html>
<head>
  <meta charset="UTF-8">
  <title>Custom Tag Example</title>
</head>
<body>
  <t:hello></t:hello>
</body>
</html>
```

MyTagHandler.java

```
package may9;
import java.io.IOException;
import jakarta.servlet.jsp.JspException;
import jakarta.servlet.jsp.JspWriter;
import jakarta.servlet.jsp.tagext.TagSupport;
public class MyTagHandler extends TagSupport{
    private static final long serialVersionUID = 1L;
    @Override
    public int doStartTag() throws JspException {
        JspWriter out = pageContext.getOut();
        try {
            out.println("This is my custom tag.<br/>");
        } catch (IOException e) {
            e.printStackTrace();
        }
        return super.doStartTag();
    }
    public static void main(String[] args) {
    }
}
```

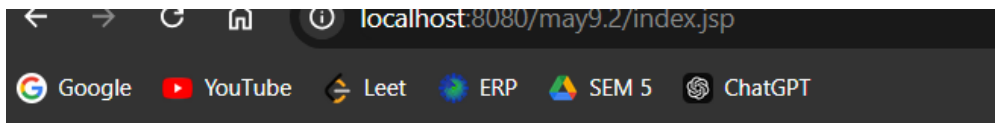
MyLib.tld

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE taglib PUBLIC "-//Sun Microsystems, Inc.//DTD JSP Tag Library 1.2//EN"
"http://java.sun.com/dtd/web-jsptaglibrary_1_2.dtd">
<taglib>
  <tlib-version>1.0</tlib-version>
  <jsp-version>2.0</jsp-version>
  <short-name>testing</short-name>
  <uri>http://www.tomcat-demo.com/testing</uri>
  <description>This is a demonstration tag library</description>
  <tag>
    <name>hello</name>
    <tag-class>may9.MyTagHandler</tag-class>
  </tag>
</taglib>
```



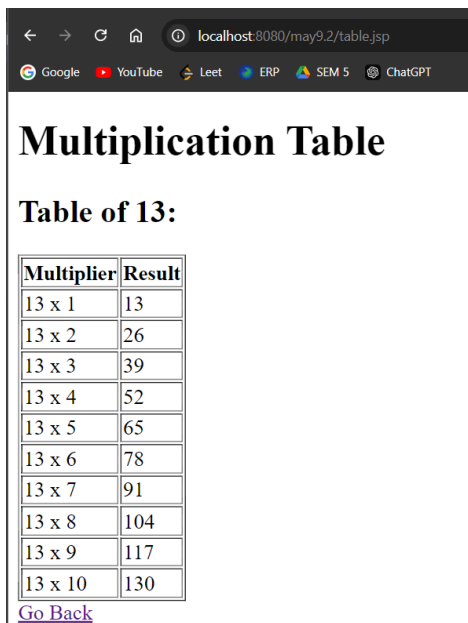
This is my custom tag.

9.2



Multiplication Table Generator

Enter a number:



```
package ssp.may10;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;
public class MySQLconnection {
    private static final String URL = "jdbc:mysql://localhost:3306/may10";
    private static final String USER = "root";
    private static final String PASSWORD = "12345";
```

```

public static void main(String[] args) {
    Connection connection = null;
    try {
        // Establish the connection
        connection = DriverManager.getConnection(URL, USER, PASSWORD);
        System.out.println("Connection established successfully!");
        // Perform database operations here
    } catch (SQLException e) {
        e.printStackTrace();
    } finally {
        // Close the connection
        if (connection != null) {
            try {
                connection.close();
                System.out.println("Connection closed.");
            } catch (SQLException e) {
                e.printStackTrace();
            }
        }
    }
}

```

Problems Servers Terminal Data Source Explorer Properties Console ×

<terminated> MYSQLconnection [Java Application] C:\Users\Lenovo\.p2\pool\plugins\org.eclipse.ju

Connection established successfully!

Connection closed.



localhost:8080/Aashi10/convert



Google



YouTube



Leet



ERP



SEM 5



ChatGPT

Currency Converter

Amount:

Currency:

INR to USD 

Convert

Converted Amount: 135.14

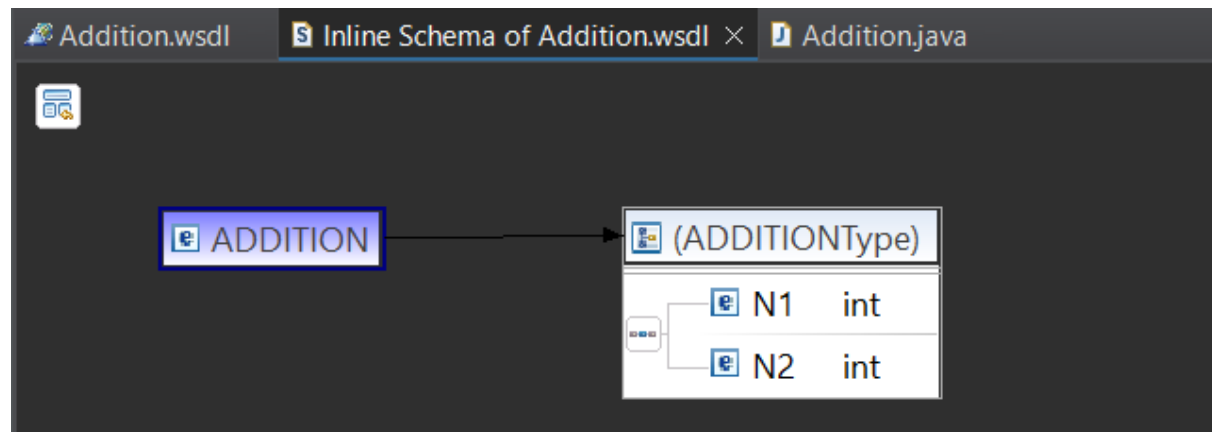
Practical 10.2

Aim:

Addition.wsdl

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<wsdl:definitions xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:tns="http://www.example.org/Addition/" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" name="Addition"
targetNamespace="http://www.example.org/Addition/">
  <wsdl:types>
    <xsd:schema targetNamespace="http://www.example.org/Addition/">
      <xsd:element name="ADDITION">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element name="N1" type="xsd:int" />
            <xsd:element name="N2" type="xsd:int"/>
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
      <xsd:element name="ADDITIONResponse">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element name="RESULT" type="xsd:int"/>
          </xsd:sequence>
        </xsd:complexType>
      </xsd:element>
    </xsd:schema>
  </wsdl:types>
  <wsdl:message name="ADDITIONRequest">
    <wsdl:part element="tns:ADDITION" name="parameters"/>
  </wsdl:message>
  <wsdl:message name="ADDITIONResponse">
    <wsdl:part element="tns:ADDITIONResponse" name="parameters"/>
  </wsdl:message>
  <wsdl:portType name="Addition">
    <wsdl:operation name="ADDITION">
      <wsdl:input message="tns:ADDITIONRequest"/>
      <wsdl:output message="tns:ADDITIONResponse"/>
    </wsdl:operation>
  </wsdl:portType>
  <wsdl:binding name="AdditionSOAP" type="tns:Addition">
    <soap:binding style="document" transport="http://schemas.xmlsoap.org/soap/http"/>
    <wsdl:operation name="ADDITION">
      <soap:operation soapAction="http://www.example.org/Addition/ADDITION"/>
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
  </wsdl:binding>
</wsdl:definitions>
```

```
</wsdl:binding>
<wsdl:service name="Addition">
  <wsdl:port binding="tns:AdditionSOAP" name="AdditionSOAP">
    <soap:address location="http://www.example.org/">
  </wsdl:port>
</wsdl:service>
</wsdl:definitions>
```



Addition.java

```
package may10b;
public class Addition {
    public int add(int a, int b) {
        return(a+b);
    }
}
```