



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Discover. Learn. Empower.

Experiment 8

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Subject Name: PBLJ LAB

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1. Aim: To develop a servlet that accepts user credentials from an HTML form and displays a personalized welcome message on successful login.

2. Implementation/Code:

```
<!DOCTYPE html>
<html>
<head><title>Login</title></head>
<body>
<form action="LoginServlet" method="post">
    Username: <input type="text" name="username"><br>
    Password: <input type="password" name="password"><br>
    <input type="submit" value="Login">
</form>
</body>
</html>
```

```
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
```

```
public class LoginServlet extends HttpServlet {
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        String user = request.getParameter("username");
        String pass = request.getParameter("password");
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
        if ("admin".equals(user) && "1234".equals(pass)) {
            out.println("Welcome, " + user + "!");
        } else {
            out.println("Login Failed. Invalid credentials.");
        }
    }
}
```



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```
<web-app>
  <servlet>
    <servlet-name>LoginServlet</servlet-name>
    <servlet-class>LoginServlet</servlet-class>
  </servlet>
  <servlet-mapping>
    <servlet-name>LoginServlet</servlet-name>
    <url-pattern>/LoginServlet</url-pattern>
  </servlet-mapping>
</web-app>
```

3. Output:

1)

```
Enter username: admin
Enter password: 1234
Welcome, admin!
```

2)

```
Enter username: user
Enter password: password
Login Failed. Invalid credentials.
```

1. Aim: To build a servlet integrated with JDBC that displays all employees and enables search by employeeID.

2. Implementation/Code:

```
<!DOCTYPE html>
<html>
<head><title>Search Employee</title></head>
<body>
<form action="EmployeeServlet" method="post">
Enter Employee ID: <input type="text" name="empId"><br>
<input type="submit" value="Search">
</form>
</body>
```



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</html>

```
import java.io.*;
```

```
import javax.servlet.*;
```

```
import javax.servlet.http.*;
```

```
import java.sql.*;
```

```
public class EmployeeServlet extends HttpServlet {
```

```
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
```

```
        throws ServletException, IOException {
```

```
        String empId = request.getParameter("empId");
```

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

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

```
        try {
```

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

```
            Connection con =
```

```
DriverManager.getConnection("jdbc:mysql://localhost:3306/company", "root", "password");
```

```
            String query = "SELECT * FROM employees WHERE emp_id=?";
```

```
            PreparedStatement ps = con.prepareStatement(query);
```

```
            ps.setString(1, empId);
```

```
            ResultSet rs = ps.executeQuery();
```

```
            if (rs.next()) {
```

```
                out.println("<h2>Employee Details</h2>");
```

```
                out.println("ID: " + rs.getInt(1) + "<br>");
```

```
                out.println("Name: " + rs.getString(2) + "<br>");
```

```
                out.println("Department: " + rs.getString(3));
```

```
            } else {
```

```
                out.println("No employee found with ID " + empId);
```

```
            }
```

```
            con.close();
```

```
        } catch (Exception e) {
```

```
            out.println("Error: " + e.getMessage());
```

```
        }
```

```
    }
```

```
}
```

3. Output:



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1)

```
Employee Details
ID: 101
Name: John Doe
Department: HR
```

2)

```
No employee found with ID 999
```

1. **Aim:** To develop a JSP-based student portal that accepts attendance data and saves it to the database using a servlet.

2. Implementation/Code:

```
<%@ page language="java" %>
<html>
<head><title>Student Attendance</title></head>
<body>
    <h2>Mark Attendance</h2>
    <form action="AttendanceServlet" method="post"> Roll No: <input type="text"
name="roll">
    <br> Name: <input type="text" name="name"><br> Status: <select name="status">
    <option>Present</option>
    <option>Absent</option>
    </select><br>
    <input type="submit" value="Submit">
    </form>
</body>
</html>
```

```
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
```



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```
import java.sql.*;
```

```
public class AttendanceServlet extends HttpServlet {
    protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
    ServletException, IOException {
        String roll = request.getParameter("roll");
        String name = request.getParameter("name");
        String status = request.getParameter("status");
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
        try {
            Class.forName("com.mysql.jdbc.Driver");
            Connection con =
            DriverManager.getConnection("jdbc:mysql://localhost:3306/student_portal", "root",
            "password");
            String query = "INSERT INTO attendance (roll_no, name, status) VALUES (?, ?, ?)";
        }
    }
    PreparedStatement ps = con.prepareStatement(query);
    ps.setString(1,roll);ps.setString(2,name);ps.setString(3,status);
    int i = ps.executeUpdate();
    if(i>0) {
        out.println("<h3>Attendance marked successfully for " + name + "!</h3>");
    } con.close();}
    Catch(Exception e) {
        out.println("Error: " + e.getMessage());
    }
    CREATE TABLE attendance (
        id INT AUTO_INCREMENT PRIMARY KEY,
        roll_no VARCHAR(20),
        name VARCHAR(100),
        status VARCHAR(10)
    );
```

3. Output:

Attendance marked successfully for John Doe!