



# DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

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## Experiment -8

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Subject Name: PBLJ

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### Exp : 8.1

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

**Objective:** Learn form handling with Servlets Understand HTTP request/response handling Practice doPost() method

### 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)) {
```



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```
        out.println("<h2>Welcome, " + user + "!</h2>");
    } else {
        out.println("<h2>Login Failed. Invalid credentials.</h2>");
    }
}
}
```

```
<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>
```

## Output:

- 1) On correct login: Welcome, SUBHAM!
- 2) On failure: Login Failed. Invalid credentials.

## Exp: 8.2

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

### Objective:

- Use JDBC with Servlet
- Fetch and display records
- Implement search functionality

### Code:

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



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```
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());  
}  
}  
}
```

## Output:

- 1) Enter an employee ID → Shows details if found.
- 2) Not found → "No employee found with ID X"

## Exp :8.3

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

### Objective:

- Combine JSP for UI and Servlets for logic
- Perform INSERT using JDBC
- Build a real-world web flow

### 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.*;
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
```



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```
= 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)
);
```



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## OUTPUT

Form submission → "Attendance marked successfully for subh!" And the data is stored in the database.