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

**8.1.2Objective:** Learn form handling with Servlets
Understand HTTP request/response handling
Practice doPost() method

**8.1.3 Code:**

```html
<!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>
```

```java
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)) {
```

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

```xml
<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, Sarthak!
2) On failure: Login Failed. Invalid credentials.

**8.2.1Aim:** To build a servlet integrated with JDBC that displays all employees and enables search by employee ID.

**Objective**: 1) Use JDBC with Servlet

    2) Fetch and display records

    3) Implement search functionality

**8.2.2Code:**

```html
<!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>
```

```java
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);
```

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

**8.2.3Output:**

1) Enter an employee ID → Shows details if found.

2) Not found → "No employee found with ID X