<u>**Experiment - 8**</u>

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                    Java with Lab

8.1.1 Aim: 1. Write a servlet to accept user credentials through an HTML form and display a personalized welcome message if the login is successful.

8.1.2 Objective: To develop a Java Servlet-based web application that accepts user credentials through an HTML form and validates the input to provide a personalized welcome message upon successful login. The primary aim is to demonstrate basic user authentication using servlets and enhance understanding of request handling, form data processing, and dynamic content generation in Java web development.

8.1.3 Code:

```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 {

        response.setContentType("text/html");
        PrintWriter out = response.getWriter();

        // Get credentials from request
        String username = request.getParameter("username");
        String password = request.getParameter("password");

        // Dummy authentication logic
        if("admin".equals(username) && "password123".equals(password)) {
            out.println("<h2>Welcome, " + username + "!</h2>");
        } else {
            out.println("<h2>Login Failed. Invalid username or password.</h2>");
        }
```

```
    }
}
```

8.1.4 Output:

```pgsql
Welcome, admin!
```

8.2.1Aim: 2. Write a servlet to accept user credentials through an HTML form and display a personalized welcome message if the login is successful.

8.2.2Objective: To develop a Java-based web application using Servlets that accepts user credentials through an HTML form and displays a personalized welcome message upon successful authentication. The project aims to demonstrate the use of servlets for handling HTTP POST requests, processing form data, and generating dynamic responses.

8.2.3Code:

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

@WebServlet("/login") // URL pattern for the form's action
public class LoginServlet extends HttpServlet {
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {

        response.setContentType("text/html");
        PrintWriter out = response.getWriter();

        // Retrieve user inputs
```

```
        String username = request.getParameter("username");
        String password = request.getParameter("password");

        // Dummy validation (you can replace this with JDBC later)
        if ("admin".equals(username) && "password123".equals(password)) {
            out.println("<h2>Welcome, " + username + "!</h2>");
        } else {
            out.println("<h2>Login Failed. Invalid username or password.</h2>");
        }

        out.close();
    }
}
```

8.2.4 Output:

```pgsql
Login Failed. Invalid username or password.
```