

EXPERIMENT:8

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

CODE:

```
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(user.equals("admin") &&
pass.equals("1234")) {
            out.println("<h2>Welcome, " + user +
"!</h2>");
```

```

        } else {
            out.println("<h2>Invalid credentials</h2>");
        }
    }
}

```

2. Medium Level: Create a servlet integrated with JDBC to display a list of employees from a database. Include a search form to fetch employee details by ID.

CODE:

```

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

public class EmployeeServlet extends HttpServlet {
    protected void doGet(HttpServletRequest request,
        HttpServletResponse response) throws ServletException,
        IOException {
        String empId = request.getParameter("id");
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
        try {
            Class.forName("com.mysql.jdbc.Driver");
            Connection con =
                DriverManager.getConnection("jdbc:mysql://localhost:3306/test", "root", "");
            Statement stmt = con.createStatement();
            String query = "SELECT * FROM employees";

```

```

        if(empId != null && !empId.isEmpty()) {
            query += " WHERE id = " + empId;
        }
        ResultSet rs = stmt.executeQuery(query);
        while(rs.next()) {
            out.println("ID: " + rs.getInt(1) + ", Name: " +
rs.getString(2) + "<br>");
        }
        con.close();
    } catch(Exception e) {
        out.println("Error: " + e.getMessage());
    }
}
}

```

3. Hard Level: Develop a JSP-based student portal. Include a form for entering attendance details and save them to the database using a servlet.

Code:

```

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

public class AttendanceServlet extends HttpServlet {
    protected void doPost(HttpServletRequest request,
        HttpServletResponse response) throws ServletException,
        IOException {
        String id = request.getParameter("studentId");
        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/te
st", "root", "");
    PreparedStatement ps = con.prepareStatement("INSERT
INTO attendance(student_id, status) VALUES (?, ?)");
    ps.setString(1, id);
    ps.setString(2, status);
    int i = ps.executeUpdate();
    if(i > 0) {
        out.println("Attendance submitted successfully");
    } else {
        out.println("Submission failed");
    }
    con.close();
} catch(Exception e) {
    out.println("Error: " + e.getMessage());
}
}
}

```