Experiment No.7

CODE:

1)Login.jsp;

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Login Page</title>
</head>
<body>
    <h2>Login Form</h2>
    <form action="LoginServlet" method="post">
        <label>Username: </label>
        <input type="text" name="username" required><br><br>
        <label>Password: </label>
        <input type="password" name="password" required><br><br>
        <input type="submit" value="Login">
    </form>
</body>
</html>
```

2) LoginServlet.java

```java
package yourpackage;
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
import javax.servlet.annotation.*;
@WebServlet("/LoginServlet")
public class LoginServlet extends HttpServlet {
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
            throws ServletException, IOException {
        String username = request.getParameter("username");
        String password = request.getParameter("password");
        UserDAO userDAO = new UserDAO();
        String dbPassword = userDAO.getPasswordByUsername(username);
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
        if (dbPassword == null) {
            out.println("<h3>User Not Registered</h3>");
        } else if (dbPassword.equals(password)) {
            out.println("<h3>Username & Password Matched</h3>");
        } else {
            out.println("<h3>Username & Password Incorrect</h3>");
        }
    }}
```

3)UserDAO.java:

```java
package yourpackage;
import java.sql.*;
public class UserDAO {
    public String getPasswordByUsername(String username) {
        String password = null;
        try {
            Class.forName("com.mysql.cj.jdbc.Driver"); // MySQL 8+
            Connection conn = DriverManager.getConnection(
                "jdbc:mysql://localhost:3306/login_db", "root", "Pass@123"
            );
            String sql = "SELECT password FROM users WHERE username = ?";
            PreparedStatement stmt = conn.prepareStatement(sql);
            stmt.setString(1, username);
            ResultSet rs = stmt.executeQuery();
            if (rs.next()) {
                password = rs.getString("password");
            }
            conn.close();
        } catch (Exception e) {
            e.printStackTrace();
        }     return password;
    }}
```

4) MySQL Script:

```sql
CREATE DATABASE IF NOT EXISTS login_db;
USE login_db;
CREATE TABLE IF NOT EXISTS users (
    id INT PRIMARY KEY AUTO_INCREMENT,
    username VARCHAR(255) UNIQUE NOT NULL,
    password VARCHAR(255) NOT NULL
);
-- Insert sample user
INSERT INTO users (username, password) VALUES ('admin', 'admin123');
```