Experiment No. 6

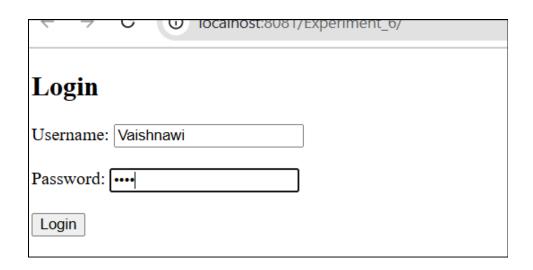
Problem stmt1:

Create a login form (HTML) with username and password fields

```
Code:
```

```
package vaish1;
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.*;
@WebServlet("/login")
public class LoginPage extends HttpServlet {
  private static final long serialVersionUID = 1L;
 // Handles POST request from login form
  protected void doPost(HttpServletRequest request, HttpServletResponse response)
      throws ServletException, IOException {
    String username = request.getParameter("username");
    String password = request.getParameter("password");
    response.setContentType("text/html");
    PrintWriter out = response.getWriter();
    // Very simple validation (hardcoded)
    if ("Vaishnawi".equals(username) && "1234".equals(password)) {
      out.println("<h2>Welcome, " + username + "!</h2>");
    } else {
      out.println("<h2>Invalid username or password</h2>");
    }
 }
HTML CODE:
<!DOCTYPE html>
<html>
<head>
  <title>Login Form</title>
</head>
<body>
```

Output:



Problem stmt2:

Develop a servlet that validates user input against hardcoded credentials.

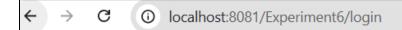


Problem stmt3:

Display success or failure messages based on authentication results.

Output:





Sryy you are not logged in due Invalid username or password!!!

Problem stmt4:

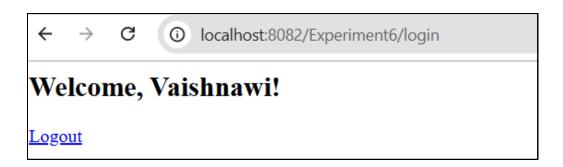
Implement logout functionality that invalidates the session and redirects users to the login page.

Code: Login.java

```
package vaish;
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.*;
@WebServlet("/login")
public class Login extends HttpServlet {
  private static final long serialVersionUID = 1L;
 // Handle GET request (e.g., browser direct access)
  protected void doGet(HttpServletRequest request, HttpServletResponse response)
      throws ServletException, IOException {
   // Redirect to login form
    response.sendRedirect("login.html");
 }
 // Handle POST request (form submission)
  protected void doPost(HttpServletRequest request, HttpServletResponse response)
      throws ServletException, IOException {
    String username = request.getParameter("username");
    String password = request.getParameter("password");
```

```
response.setContentType("text/html");
    PrintWriter out = response.getWriter();
    if ("Vaishnawi".equals(username) && "1234".equals(password)) {
      HttpSession session = request.getSession();
      session.setAttribute("user", username);
      out.println("<h2>Welcome, " + username + "!</h2>");
      out.println("<a href='logout'>Logout</a>");
    } else {
</h2>"):
</h2>Sryy you are not logged in due to invalid username or password!!!
   }
 }
Redirects.java
Code:
package vaish;
import java.io.IOException;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.*;
@WebServlet("/LogoutServlet")
public class Redirects extends HttpServlet {
  private static final long serialVersionUID = 1L;
  protected void doGet(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
    // Invalidate the session
    HttpSession session = request.getSession(false);
    if (session != null) {
      session.invalidate();
   }
    // Redirect to login page
    response.sendRedirect("login.html");
 }
login.html
Code:
<!DOCTYPE html>
<html>
```

Output:



Problem stmt5:

Create a forgot password feature that allows users to reset their password via email.

Code: Login.java

```
String username = request.getParameter("username");
    String password = request.getParameter("password");
    response.setContentType("text/html");
    PrintWriter out = response.getWriter();
    if ("Vaishnawi".equals(username) && "1234".equals(password)) {
      HttpSession session = request.getSession();
      session.setAttribute("username", username);
      out.println("<h2>Welcome, " + username + "!</h2>");
      out.println("<a href='LogoutServlet'>Logout</a>");
    } else {
      out.println("<h2>Invalid username or password!</h2>");
      out.println("<a href='forgot.html'>Forgot Password?</a>");
   }
 }
}
ForgotPassword.java
Code:
package vaish;
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.*;
@WebServlet("/forgot")
public class ForgotPassword extends HttpServlet {
  private static final long serialVersionUID = 1L;
 // Simulated user email and password reset link (you can connect this to DB later)
  private final String registeredEmail = "2217021@ritindia.edu";
  protected void doPost(HttpServletRequest request, HttpServletResponse response)
      throws ServletException, IOException {
    String email = request.getParameter("email");
    response.setContentType("text/html");
    PrintWriter out = response.getWriter();
```

```
if (email.equalsIgnoreCase(registeredEmail)) {
     // Simulate password reset email
     out.println("<h3>Password reset link sent to: " + email + "</h3>");
"); out.println("(Simulated) Check your inbox for instructions to reset your password.
   } else {
     out.println("<h3>Email not registered!</h3>");
   }
 }
}
Login.html
Code:
<!DOCTYPE html>
<html>
<head>
  <title>Login Page</title>
</head>
<body>
  <h2>Login Form</h2>
  <form action="login" method="post">
   <u>Username</u>: <input type="text" name="username" required><br><br>
    Password: <input type="password" name="password" required><br><br>
   <input type="submit" value="Login">
  </form>
  <a href="forgot.html">Forgot Password?</a>
</body>
</html>
Forgot.html
Code:
<!DOCTYPE html>
<html>
<head>
  <title>Forgot Password</title>
</head>
<body>
  <h2>Forgot Password</h2>
```

Output:



