❖ **Create a servlet that uses Cookies to store the number of times a user has visited servlet.**

➢ **Code:**

## ● **index.html**

<html>

<head>

<title>Practical 5</title>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

</head>

<body>

<form action="Page1">

<h1>Cookie Page</h1>

Enter your name: <input type="text" name="txtName" value="" /><br><br>

<input type="submit" value="Click to Enter" />

</form>

</body>

</html>

## ● **Page1.java**

package mypack;

import java.io.IOException; import java.io.PrintWriter;

import javax.servlet.ServletException; import javax.servlet.http.Cookie; import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest; import javax.servlet.http.HttpServletResponse;

public class Page1 extends HttpServlet { @Override

protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

response.setContentType("text/html;charset=UTF-8"); try (PrintWriter out = response.getWriter()) {

out.println("<!DOCTYPE html>"); out.println("<html>"); out.println("<head>"); out.println("<title>Servlet Page1</title>"); out.println("</head>");

out.println("<body bgcolor=pink>");

String uname = request.getParameter("txtName"); out.println("<h1>Welcome! " + uname + "</h1>"); Cookie ck1 = new Cookie("username", uname); Cookie ck2 = new Cookie("visit", "1"); response.addCookie(ck1); response.addCookie(ck2);

out.println("<h1><a href=Page2 >Click to visit Page 2 </a></h1>");

//out.println("<h1>Servlet Page1 at " + request.getContextPath() + "</h1>"); out.println("</body>");

out.println("</html>");

}

}

}

## ● **Page2.java**

package mypack;

import java.io.IOException; import java.io.PrintWriter;

import javax.servlet.ServletException; import javax.servlet.http.Cookie; import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest; import javax.servlet.http.HttpServletResponse;

public class Page2 extends HttpServlet { @Override

protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

response.setContentType("text/html;charset=UTF-8"); try (PrintWriter out = response.getWriter()) {

out.println("<!DOCTYPE html>"); out.println("<html>"); out.println("<head>"); out.println("<title>Servlet Page2</title>");

out.println("</head>"); out.println("<body bgcolor=yellow>");

Cookie[] ck = request.getCookies(); for (int i = 0; i < ck.length; i++) {

if (ck[i].getName().equals("visit")) {

int count = Integer.parseInt(ck[i].getValue()) + 1; out.println("<h1>Visit No : " + count + "</h1>"); ck[i] = new Cookie("visit", count + ""); response.addCookie(ck[i]);

} else {

out.println(ck[i].getName() + " = " + ck[i].getValue());

}

out.println("<h1><a href=Page3 >Click to visit Page 3 </a></h1>");

//out.println("<h1><a href=Page4 >Click to visit Page 4 </a></h1>");

//out.println("<h1><a href=Page5 >Click to visit Page 5 </a></h1>");

out.println("</body>"); out.println("</html>");

}

}

}

}

## ● **Page3.java**

package mypack;

import java.io.IOException; import java.io.PrintWriter;

import javax.servlet.ServletException; import javax.servlet.http.Cookie; import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest; import javax.servlet.http.HttpServletResponse;

public class Page3 extends HttpServlet { @Override

protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

response.setContentType("text/html;charset=UTF-8"); try (PrintWriter out = response.getWriter()) {

out.println("<!DOCTYPE html>"); out.println("<html>");

out.println("<head>"); out.println("<title>Servlet Page3</title>"); out.println("</head>");

out.println("<body bgcolor=orange>");

Cookie[] ck = request.getCookies(); for (int i = 0; i < ck.length; i++) {

if (ck[i].getName().equals("visit")) {

int count = Integer.parseInt(ck[i].getValue()) + 1; out.println("<h1>Visit No : " + count + "</h1>"); ck[i] = new Cookie("visit", count + ""); response.addCookie(ck[i]);

} else {

out.println(ck[i].getName() + " = " + ck[i].getValue());

}

out.println("<h1><a href=Page3 >Click to visit Page 3 </a></h1>");

//out.println("<h1><a href=Page4 >Click to visit Page 4 </a></h1>");

//out.println("<h1><a href=Page5 >Click to visit Page 5 </a></h1>");

out.println("</body>"); out.println("</html>");

}

}

}

}