Ex.no:7

Date: 18/4/25

7.Write a servlet to program to store a user's preferences(like theme or language) using cookies.Retrive and display these preferences on subsequent visits.

Aim:

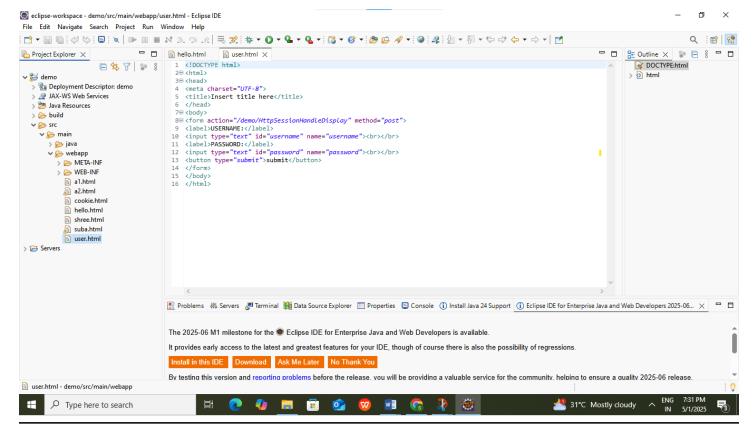
To Write a Servlet to demonstrate the difference between HTTP GET and POST

By creating a form and handling requests accordingly.

Program:

Cookie.html

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<form method="post" action="http://localhost:7750/</pre>
Dynamic web project suba/Cookie1">
    >
        <label>Theme: </label>
        <input type="text" name="theme" required>
    <g\>
    >
        <label>Language: </label><br>
        <input type="radio" name="language" value="English" required>
English<br>
        <input type="radio" name="language" value="Tamil"> Tamil<br>
        <input type="radio" name="language" value="Hindi"> Hindi<br>
    <button type="submit">Submit
</form>
</body>
</html>
```



getCookie.jsp

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"</pre>
pageEncoding="ISO-8859-1"%>
<!DOCTYPE html>
<html>
<head>
    <meta charset="ISO-8859-1">
    <title>Get Cookie</title>
</head>
<body>
< %
    Cookie[] cookies = request.getCookies();
    String theme = null;
    String language = null;
    if (cookies != null) {
        for (Cookie cookie : cookies) {
            if ("theme".equals(cookie.getName())) {
                theme = cookie.getValue();
            } else if ("language".equals(cookie.getName())) {
                 language = cookie.getValue();
            }
        }
    }
    if (theme != null && language != null) {
Roll.no:231801173
```

```
out.println("Hi! Your theme is <b>" + theme + "</b> and preferred
language is <b>" + language + "</b>.");
                 } else {
                                  out.println("No cookies found.");
응>
</body>
</html>
eclipse-workspace - demo/src/main/java/com/Hello/servet/CookieMy.java - Eclipse IDE
 File Edit Source Refactor Navigate Search Project Run Window Help
Q 😭 😭
                                                    □ □ □ Outline ×
                                                                                                                                                                                                                                                                                                                         - -
                                                                  12 */
13 @MebServlet("/CookieMy")
14 public class CookieMy extends HttpServlet {
15 private static final long serialVersionUID = 1L;

    □ 
    □ 
    □ 
    □ 
    □ 
    □ 
    □ 
    □ 
    □ 
    □ 
    □ 
    □ 
    □ 
    □ 
    □ 
    □ 
    □ 
    □ 
    □ 
    □ 
    □ 
    □ 
    □ 
    □ 
    □ 
    □ 
    □ 
    □ 
    □ 
    □ 
    □ 
    □ 
    □ 
    □ 
    □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
  □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
  □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
  □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
  □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
  □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
  □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
  □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
  □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
  □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
  □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
  □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
  □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
   □ 
  □ 
   □ 
  □ 
  □ 
  □ 
  □ 
  □ 
  □ 
  □ 
  □ 
  □ 
  □ 
  □ 
  □ 
  □ 
  □ 
  □ 
  □ 
  □ 

                                                                                                                                                                                                                                                                                        com.Hello.servet
     > 📆 Deployment Descriptor: demo

√ 

☐ CookieMy

     > A JAX-WS Web Services
                                                                                                                                                                                                                                                                                           gSF serialVersionUID: long
                                                                                                                                                                                                                                                                                           CookieMy()
     * @see HttpServlet#HttpServlet()
          🗸 📂 src/main/java
                                                                                                                                                                                                                                                                                           doGet(HttpServletRequest,
                                                                    19
             > 🌐 (default package)
                                                                                                                                                                                                                                                                                           cookies(Object) : Object
                                                                                public CookieMy() {

√ 

Æ com.Hello.servet

    doPost(HttpServletRequest,

                                                                                       super();
// TODO Auto-generated constructor stub
                 > 🔝 CookieMy.java
                 > III HelloWorld.java
                > / HttpSessionHandle.java
                                                                                   * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)
                                                                    26
27
                  HttpSessionHandleDisplay.java
         > M Libraries
                                                                                 protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOExce
                                                                                        // TODO Auto-generated method stub
//response.getWriter().append("Served at: ").append(request.getContextPath());
     > 📂 build
     ∨ 🧁 src
                                                                                        jakarta.servlet.http.Cookie[] cookies =request.getCookies();
String cookiename = "username";
         🗸 📂 main
                                                                                       > 🤛 com
                                                                                                     if(cookiename.equals(c.getName()))
   System.out.println("username:"+c.getName());
                    string.java
             System.out.println(c.getValue());
                 > 🍃 META-INF
                 > 📂 WEB-INF
                    a1.html
                    a2.html
                    cookie.html
                                                                   🥷 Problems 🚜 Servers 🧬 Terminal 🐞 Data Source Explorer 🔳 Properties 💂 Console 🕦 Install Java 24 Support 🕦 Eclipse IDE for Enterprise Java and Web Developers 2025-06... 🗴
                    hello.html
                    shree.html
                                                                   The 2025-06 M1 milestone for the 🏶 Eclipse IDE for Enterprise Java and Web Developers is available
                    🔝 suba.htm
                    user.html
                                                                   It provides early access to the latest and greatest features for your IDE, though of course there is also the possibility of regressions
  > Servers
                                                                   By testing this version and reporting problems before the release, you will be providing a valuable service for the community, helping to ensure a quality 2025-06 release
                                                                                                                                                               Writable
              Type here to search
                                                                                                                                                                                                       w
```

Cookie.java

package com.suba.servlet;

import java.io.IOException;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.Cookie;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

Roll.no:231801173

```
@WebServlet("/Cookie1")
public class Cookie1 extends HttpServlet {
  private static final long serialVersionUID = 1L;
  public Cookie1() {
    super();
  }
  protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException,
IOException {
    String theme = request.getParameter("theme");
    String lang = request.getParameter("language");
    // Check if values match specific criteria
    if ("nature".equalsIgnoreCase(theme) && "tamil".equalsIgnoreCase(lang)) {
       // Create cookie with proper name and value
       Cookie themeCookie = new Cookie("theme", theme);
       themeCookie.setMaxAge(60 * 60); // 1 hour
       themeCookie.setPath("/");
       response.addCookie(themeCookie);
       Cookie languageCookie = new Cookie("language", lang);
       languageCookie.setMaxAge(60 * 60);
       languageCookie.setPath("/");
       response.addCookie(languageCookie);
       response.sendRedirect("getCookie.jsp");
     } else {
```

Roll.no:231801173

```
response.getWriter().println("Invalid login!");
🎑 eclipse-workspace - demo/src/main/java/com/Hello/servet/Cookie.java - Eclipse IDE
                                                                                                                                                                                                                                                                                                                                                   П
                                                                                                                                                                                                                                                                                                                                                               ×
File Edit Source Refactor Navigate Search Project Run Window Help
Q 🔡 😭
                                                          🗝 🗋 🖺 hello.html 🖺 user.html 🚺 HttpSessionHandlejava 🚺 HttpSessionHandlejösplay.ja... 🖺 cookie.html 🗍 Cookiejava 🗴 😁 🗖 😤 Outline 🗴
                                                                                                                                                                                                                                                                                                                                                            _ _
                                                                                         * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)

⊕ com.Hello.servet

     > 📆 Deployment Descriptor: demo
                                                                                        protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOExce
                                                                                                                                                                                                                                                                                                                             Cookie
                                                                                                // TODO Auto-generated method stub
response.getWriter().append("Served at: ").append(request.getContextPath());
                                                                                                                                                                                                                                                                                                                           uSF serialVersionUID: long
        JAX-WS Web Services

    Cookie(String, String)

     33
                                                                                                                                                                                                                                                                                                                           o doGet(HttpServletRequest, I
          > 🌐 (default package)
                                                                                                                                                                                                                                                                                                                           * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)
*/
             setMaxAge(int) : void
                 > D Cookie.java
                                                                                         protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOExc 🔤
                  > 🔝 CookieMy.java
                                                                                                // TODO Auto-generated method study
// dodoct(request, response);
String fname = request .getParameter("fname");
Cookie cookie= new Cookie("fname",fname);
                  > 🔃 HelloWorld.java
                  > II HttpSessionHandle.java
                   > I HttpSessionHandleDisplay.java
                                                                                                cookie.setMaxAge(60*60);
response.sendRedirect("CookieMy");
         > M Libraries
     > 🎘 build
                                                                           45

√ 

Book since

Si
                                                                           46
          v 📂 main
             🗸 📂 java
                                                                                         private void setMaxAge(int i) {
                 > 🔑 com
                                                                        59
                                                                                                 // TODO Auto-generated method stub
                     string.java
                                                                           51
52
             🗸 📂 webapp
                  > 🗁 META-INF
                  > 🗁 WEB-INF
                                                                           54 }
                     a1.html
                     🔏 a2.html
                      cookie.html
                                                                         📳 Problems 🦚 Servers 🧬 Terminal 鵩 Data Source Explorer 📋 Properties 📮 Console 🕦 Install Java 24 Support 🕦 Eclipse IDE for Enterprise Java and Web Developers 2025-06... 💥
                      hello.html
                     shree.html
                                                                         The 2025-06 M1 milestone for the 🏶 Eclipse IDE for Enterprise Java and Web Developers is available
                     suba.html
                                                                         It provides early access to the latest and greatest features for your IDE, though of course there is also the possibility of regressions

    Servers

                                                                         By testing this version and reporting problems before the release, you will be providing a valuable service for the community. helping to ensure a quality 2025-06 release
                                                                                                                                                                                                                    Smart Insert
               P Type here to search
                                                                                                                                                                                                                            w
                                                                                                                                                                                                                                                                            31°C Mostly cloudy
                                                                                                                                                            (s
                                                                                                                                                                                                                                                                                                                                  IN
```

Output:

