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
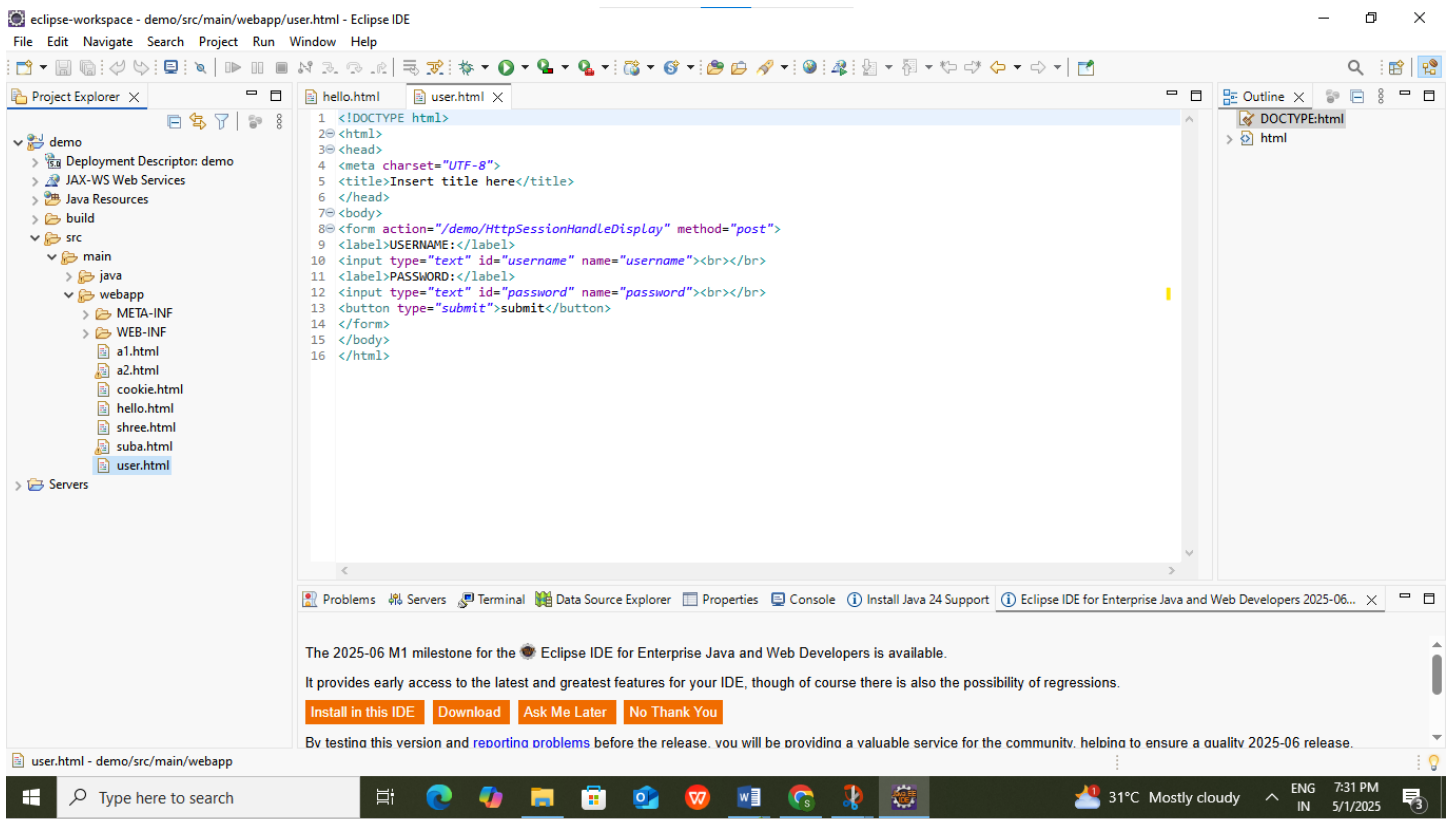
By creating a form and handling requests accordingly .

Program:

Cookie.html

```html
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<form method="post" action="http://localhost:7750/
Dynamic_web_project_suba/Cookie1">
    <p>
        <label>Theme: </label>
        <input type="text" name="theme" required>
    </p>
    <p>
        <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>
    </p>
    <button type="submit">Submit</button>
</form>


</body>
</html>
```

getCookie.jsp

```jsp
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
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) {
```
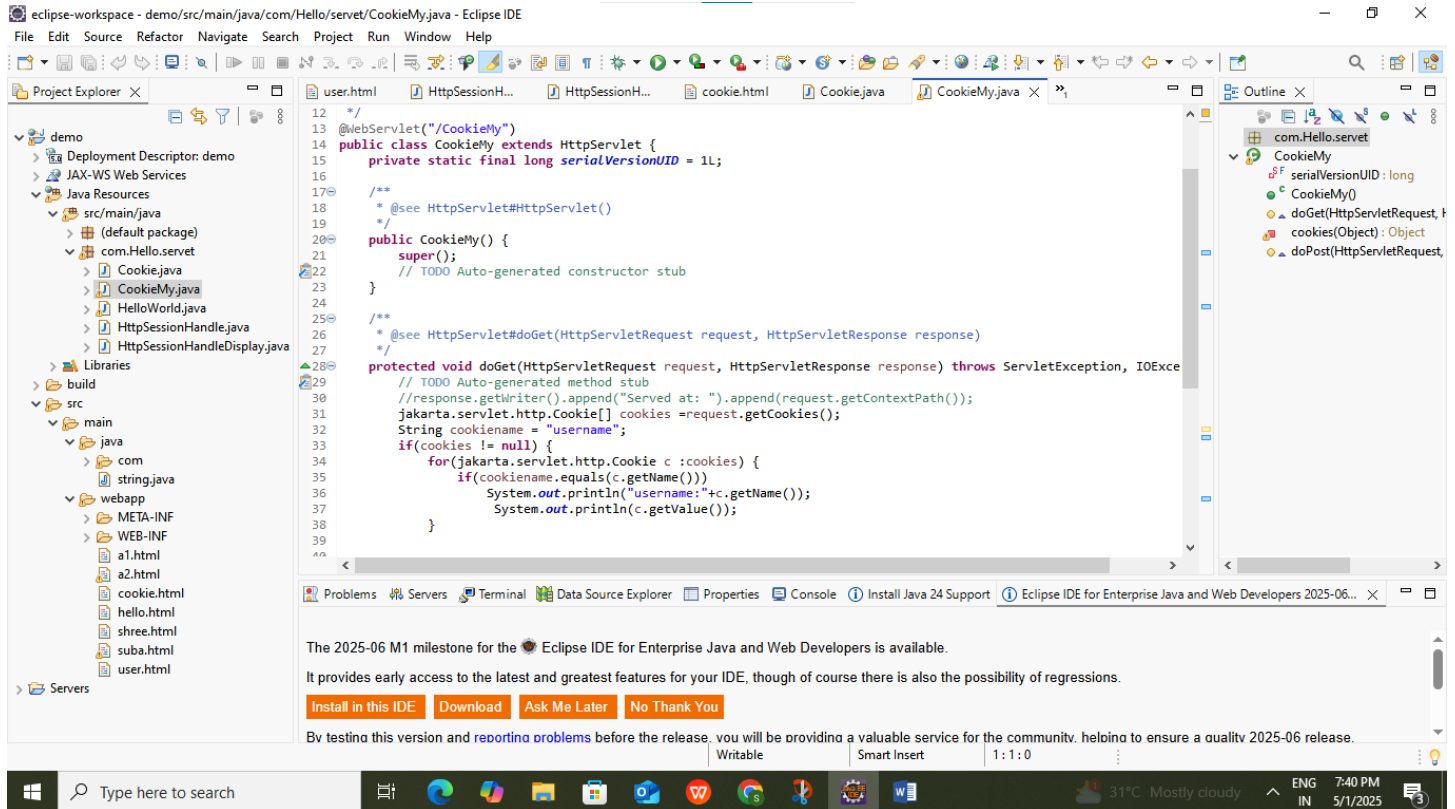
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```jsp
        out.println("Hi! Your theme is <b>" + theme + "</b> and preferred
language is <b>" + language + "</b>.");
    } else {
        out.println("No cookies found.");
    }
%>
</body>
</html>
```


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

```java
@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 {
```
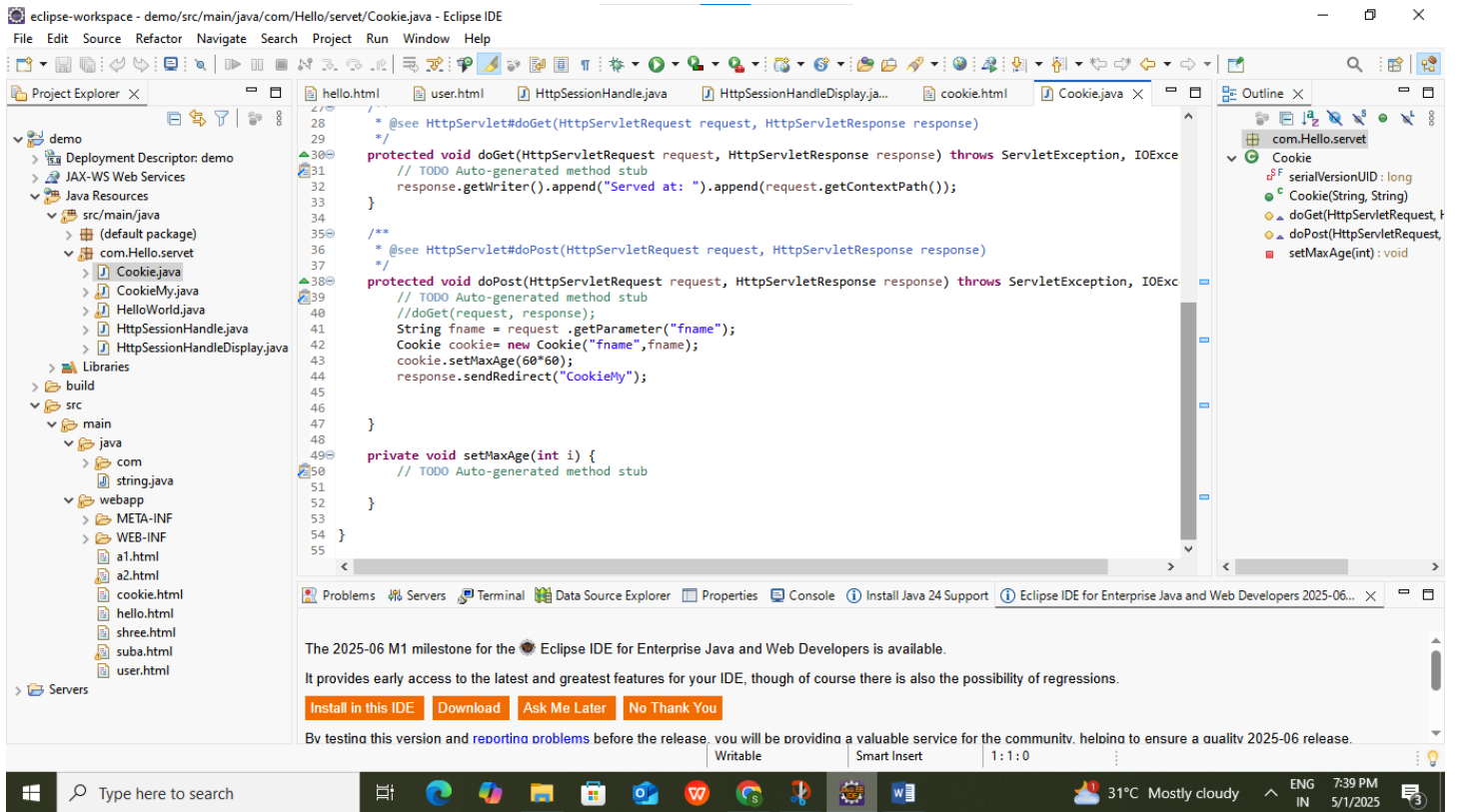
```
        response.getWriter().println("Invalid login!");

    }

  }

}
```
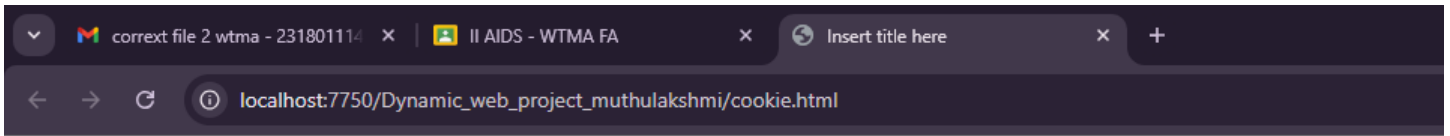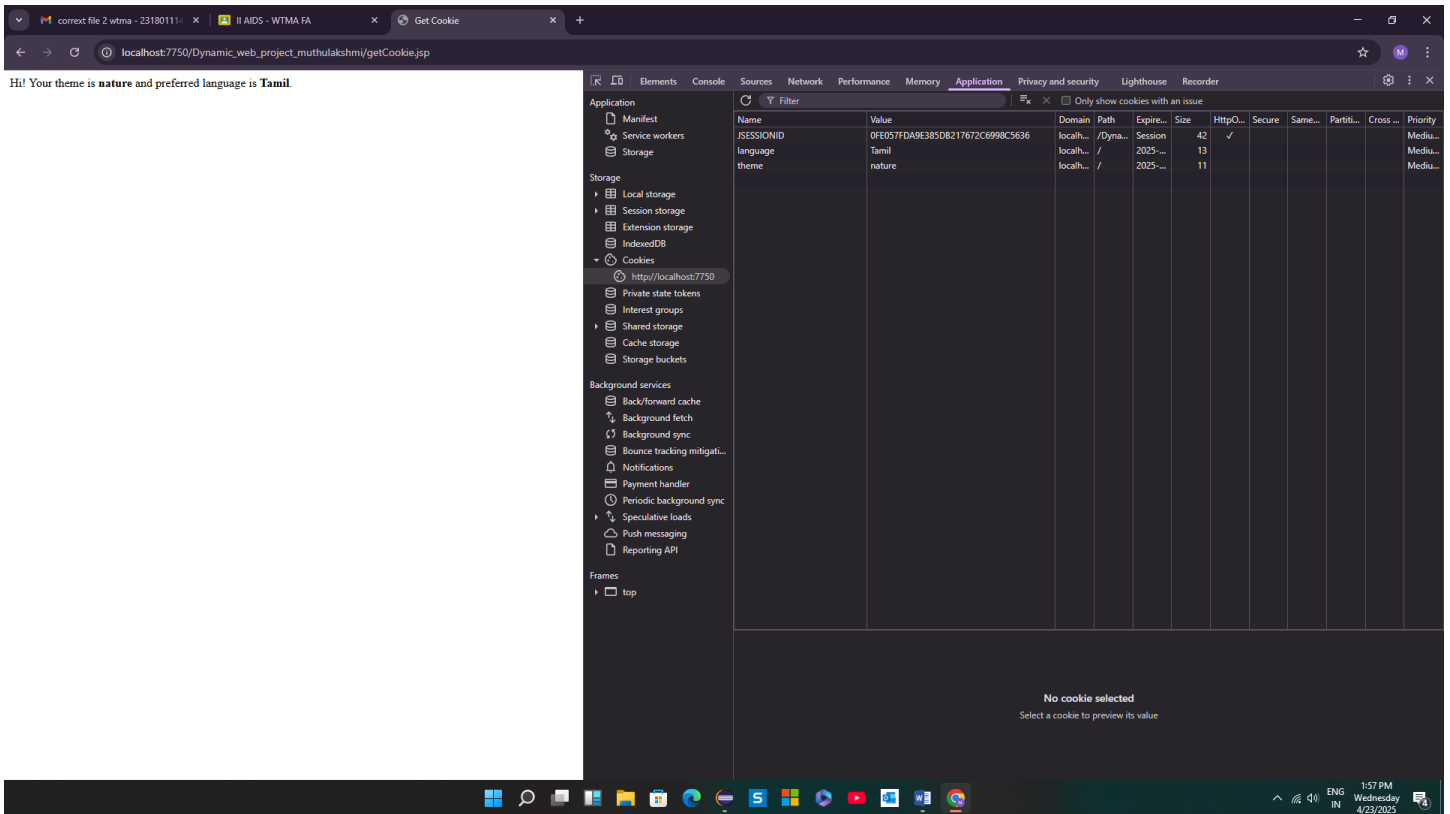

Output:

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Theme: nature

Language:
- ○ English
- ● Tamil
- ○ Hindi

Submit

Hi! Your theme is **nature** and preferred language is **Tamil**.

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Result:

Thus 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.

Roll.no:231801173