

EXP NO: 7

Servlet Program to Store and Retrieve User Preferences Using Cookies

Aim:

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

Code:

Cookie.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>Set Preferences</title>
</head>
<body>
    <form method="post">
        <p>
            <label>Theme: </label>
            <select name="theme">
                <option value="light">Light</option>
                <option value="dark">Dark</option>
            </select>
        </p>
        <p>
            <label>Language: </label>
            <select name="language">
                <option value="English">English</option>
                <option value="Tamil">Tamil</option>
                <option value="Hindi">Hindi</option>
            </select>
        </p>
    </form>
</body>
</html>
```

```

        </select>

</p>
<button type="submit">Save Preferences</button>
</form>

<%
    if ("POST".equals(request.getMethod())) {
        String theme = request.getParameter("theme");
        String language = request.getParameter("language");

        Cookie themeCookie = new Cookie("theme", theme);
        Cookie langCookie = new Cookie("language", language);

        themeCookie.setMaxAge(60 * 60 * 24 * 7); // 7 days
        langCookie.setMaxAge(60 * 60 * 24 * 7); // 7 days

        themeCookie.setPath("/");
        langCookie.setPath("/");

        response.addCookie(themeCookie);
        response.addCookie(langCookie);

        response.sendRedirect("getCookie.jsp");
    }
%>
</body>
</html>

```

Getcookie.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>Your Preferences</title>

</head>

<body>

<%

    String theme = "Not set";

    String language = "Not set";


    Cookie[] cookies = request.getCookies();

    if (cookies != null) {

        for (Cookie cookie : cookies) {

            if ("theme".equals(cookie.getName())) {

                theme = cookie.getValue();

            } else if ("language".equals(cookie.getName())) {

                language = cookie.getValue();

            }

        }

    }

%>

<h2>Your Saved Preferences</h2>

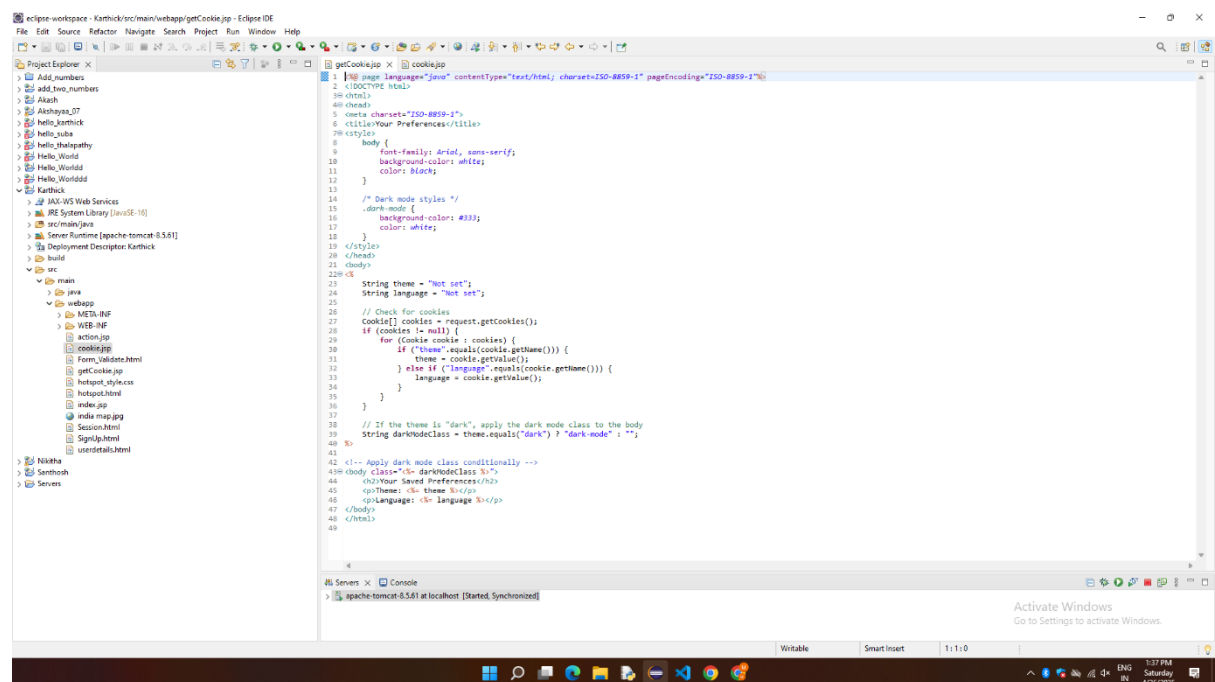
<p>Theme: <%= theme %></p>

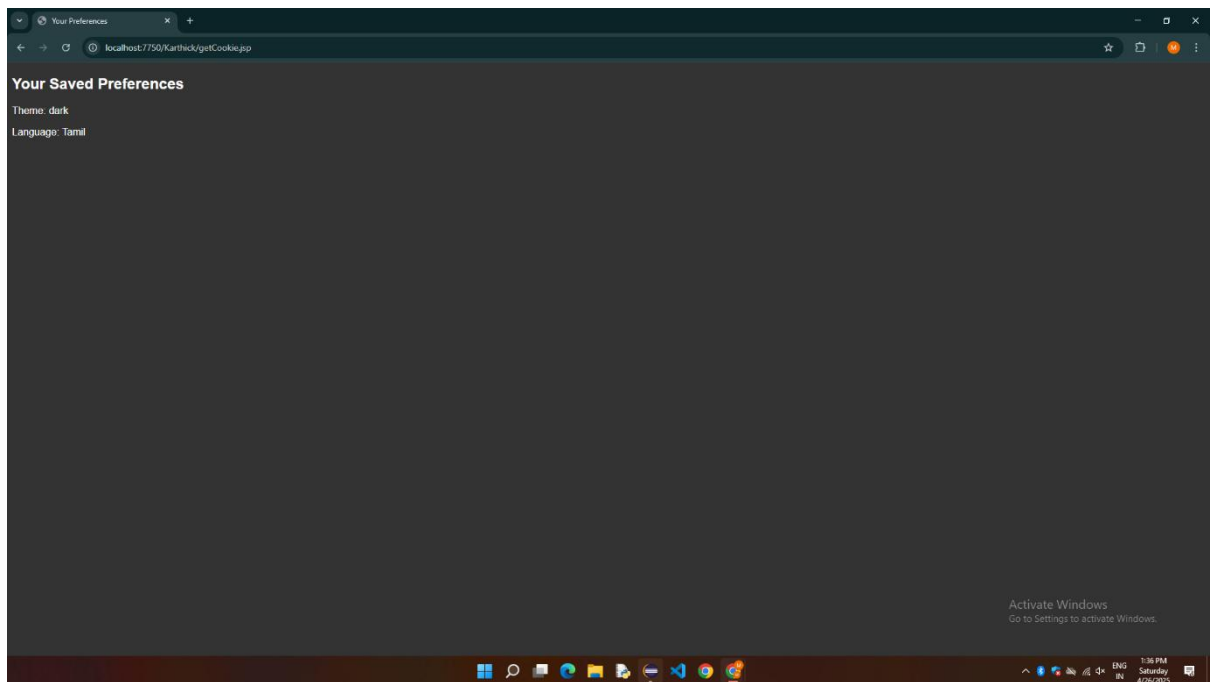
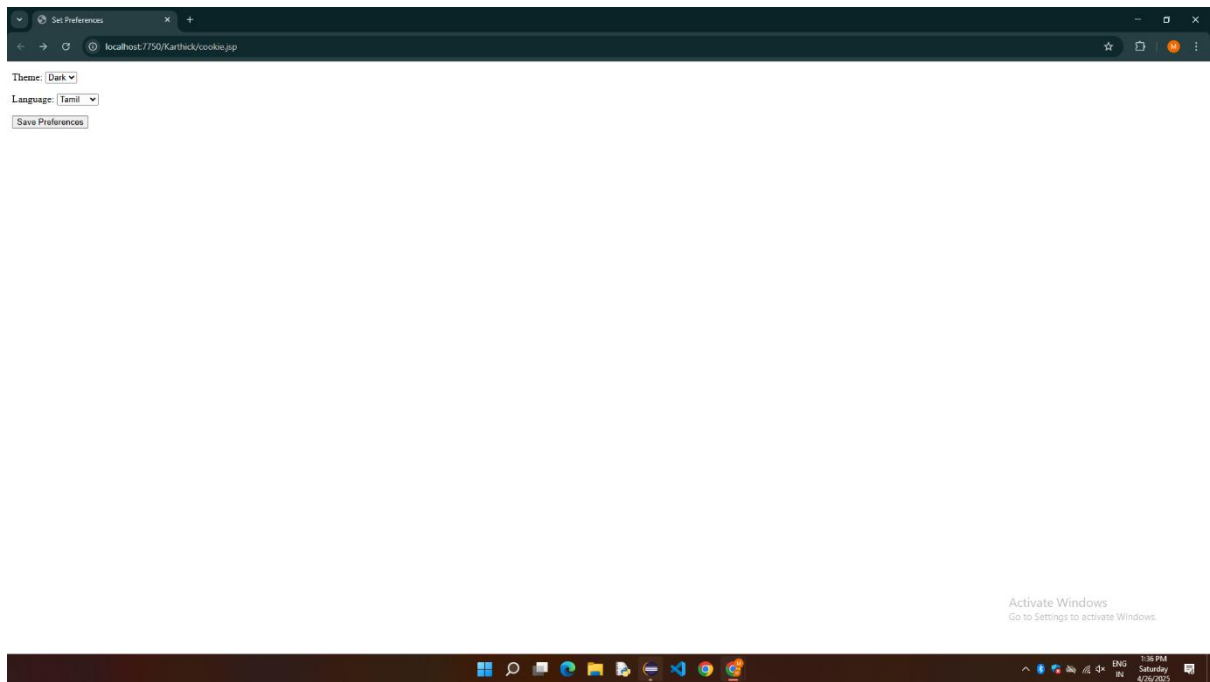
<p>Language: <%= language %></p>

</body>

</html>
```

The screenshot displays the Eclipse IDE interface for a Java web application. The Project Explorer on the left shows the project structure, including the 'src/main/java' directory containing the 'UserController.java' file and the 'src/main/resources' directory containing the 'webapp' directory. The 'UserController.java' file is open in the editor, showing a REST API endpoint for '/select/option'. The code uses Spring MVC annotations like @RestController, @GetMapping, and @RequestBody. It also uses cookies to store user preferences for 'theme' and 'language'. The bottom status bar shows the project is running on 'apache-tomcat-8.5.61 at localhost'.





RESULT:

Thus, the Cookies is demonstrated Successfully.