

EXP : 7	COOKIE TO STORE USER INFORMATION
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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.html:**

```
<!DOCTYPE html>

<html>

<head>

<meta charset="UTF-8">

<title>COOKIE</title>

</head>

<body>

<form action="/harish//cookie" method="post" >

<label for="name" >USER-NAME</label>

<input type="text" name=username placeholder="Enter the User-name" required>

<br>

<br>

<label for="password">PASSWORD

</label>

<input type="text" name=password placeholder="Enter the Password" required>

<br>

<input type = "submit" value= "signin">

</form>

</body>

</html>
```

Cookie.java:

```

package com.harish.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;

/**
 * Servlet implementation class cookie
 */
@WebServlet("/cookie")
public class cookie extends HttpServlet {
    private static final long serialVersionUID = 1L;

    /**
     * @see HttpServlet#HttpServlet()
     */
    public cookie() {
        super();
        // TODO Auto-generated constructor stub
    }

    /**
     * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)
     */
    protected void doGet(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
        // TODO Auto-generated method stub
        response.getWriter().append("Served at: ").append(request.getContextPath());
    }
}

```

```

/**
 * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)
 */
protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
    String user = request.getParameter("username");
    String pass = request.getParameter("password");
    if(user.equals("123") && pass.equals("123")){

        Cookie username = new Cookie("username", user);
        username.setMaxAge(60*60);
        username.setPath("/");
        response.addCookie(username);

        response.sendRedirect(request.getContextPath() + "/getcookie");
    }
}

```

GetCookie.java:

```

package com.harish.servlet;

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

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;

```

```

/**
 * Servlet implementation class getcookie
 */
@WebServlet("/getcookie")
public class getcookie extends HttpServlet {

    private static final long serialVersionUID = 1L;
    private static final PrintWriter NULL = null;

    /**
     * @see HttpServlet#HttpServlet()
     */
    public getcookie() {
        super();
        // TODO Auto-generated constructor stub
    }

    /**
     * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)
     */
    protected void doGet(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {

        Cookie[] cookies = request.getCookies();

        String cookieName = "username";
        if (cookies != null) {
            for (Cookie cookie : cookies) {
                if (cookieName.equals(cookie.getName())) {
System.out.println("username "+cookie.getName());
PrintWriter out = response.getWriter();
out.println(cookie.getValue());
                }
            }
        }
    }
}

```

```

    }

    /**
     * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)
     */
    protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
    ServletException, IOException {

        // TODO Auto-generated method stub
        doGet(request, response);
    }

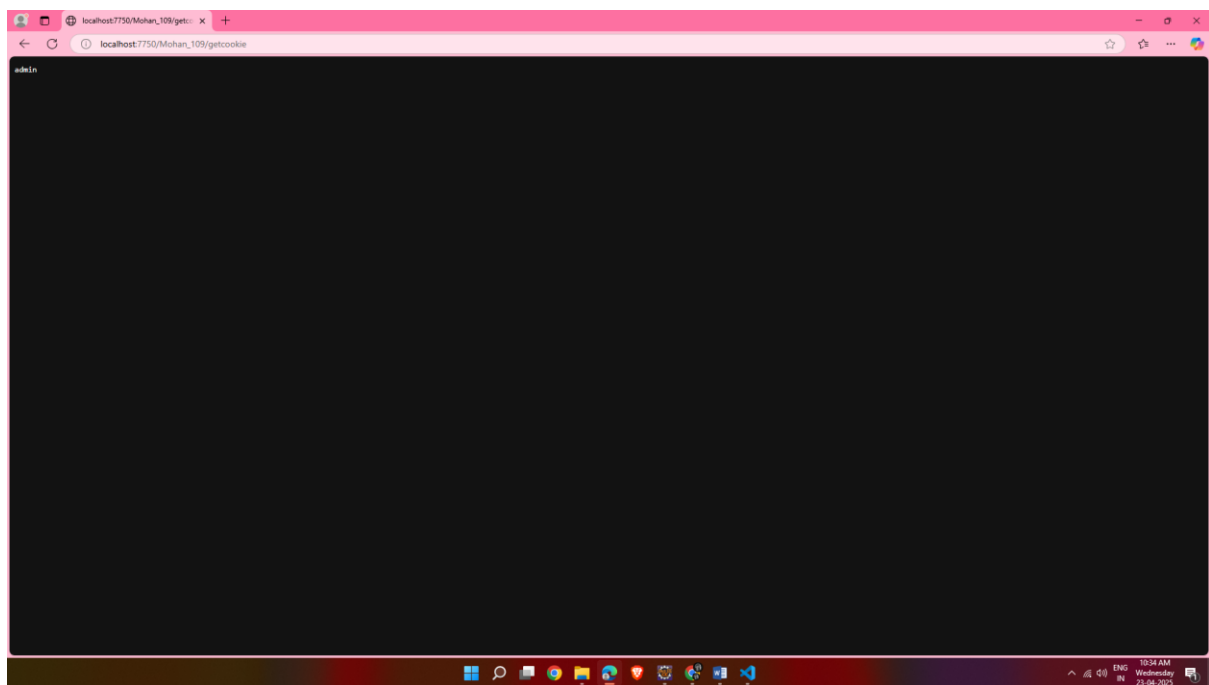
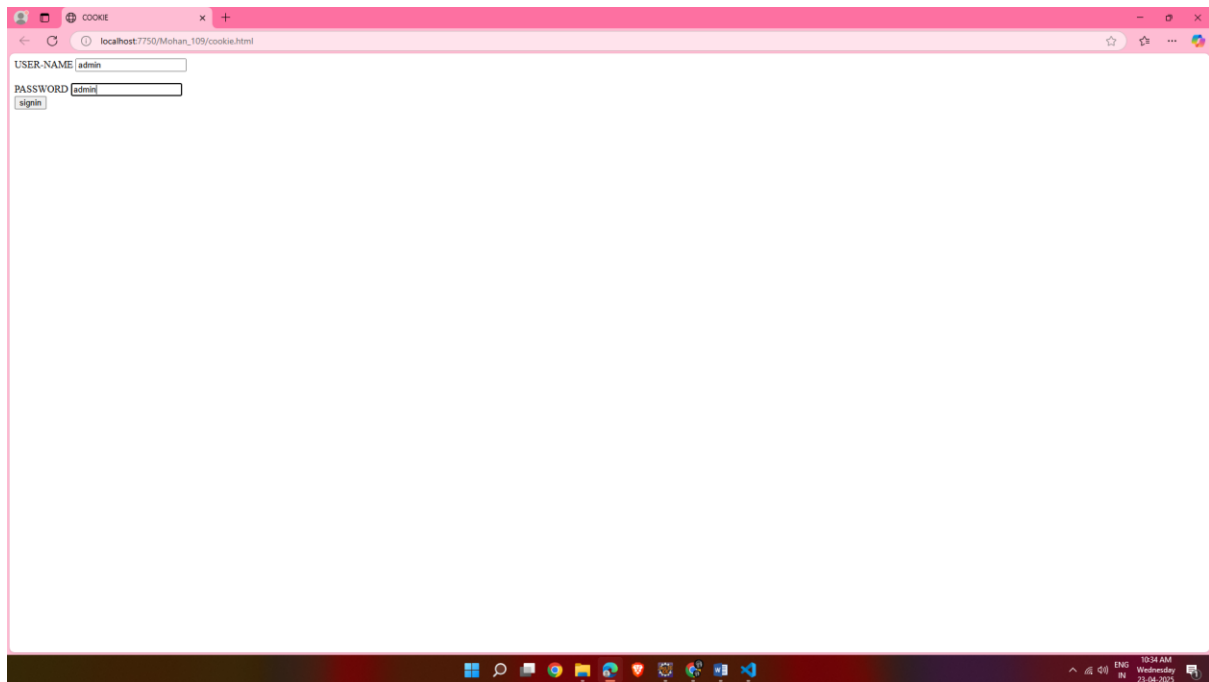
}

```

OUTPUT:

The screenshot shows the Eclipse IDE with the following components:

- Project Explorer:** Shows the project structure with files like `cookie.java`, `getcookie.java`, `login.java`, `signin.java`, `NewFile.html`, `NewFile.jsp`, `login.html`, `session.html`, and `index.html`.
- Editor:** Displays the code for `cookie.java`, which is a class implementing `HttpServlet`. It includes a constructor, a `doGet` method, and a `doPost` method. The `doPost` method checks for a valid username and password, sets a cookie, and redirects the user to `/getcookie`.
- Console:** Shows the output of the application, including the start of the Apache Tomcat server and the execution of the `cookie.java` class.



RESULT:

Handling user information using cookie is done using servlet successfully.