6 Write a program to demonstrate a Session Tracking using Cookies.

Dashboard

```java
package practice;

import java.io.*;
import javax.servlet.*;
import javax.servlet.annotation.*;
import javax.servlet.http.*;
/**
* Servlet implementation class Dashboard
*/
@WebServlet("/Dashboard")
public class Dashboard extends HttpServlet {
 private static final long serialVersionUID = 1L;

 /**
* @see HttpServlet#HttpServlet()
*/
 public Dashboard() {
 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

 Cookie cookie = null;
 Cookie[] cookies = null;
 boolean found = false;
 PrintWriter out = response.getWriter();
 out.println("<html><body>");

 cookies = request.getCookies();
 if (cookies != null) {
 for (int i = 0; i < cookies.length; i++) {
 cookie = cookies[i];
 if (cookie.getName().contentEquals("userid") && cookie.getValue()
!= null) {
 out.println("UserId read from cookie:" + cookie.getValue() +
"<br>");
 found = true;
 }
 }
 }
 if (!found) {
 out.println("No UserId was found in cookie.<br>");
 }
 out.println("</body></html>");
 }
 /**
 * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse
response)
 */
 protected void doPost(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
```

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

Login servlet:

```java
package practice;

import java.io.*;
import javax.servlet.*;
import javax.servlet.annotation.*;
import javax.servlet.http.*;
/**
 * Servlet implementation class LoginServlet
 */
@WebServlet("/LoginServlet")
public class LoginServlet extends HttpServlet {
 private static final long serialVersionUID = 1L;

 /**
 * @see HttpServlet#HttpServlet()
 */
 public LoginServlet() {
 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

 Cookie userId = new Cookie("userid",
request.getParameter("userid"));
 response.addCookie(userId);
 response.sendRedirect("dashboard");

 }
 /**
 * @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);
 }
}
```

Index.html:
```html
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
</head>
```

```html
<body>
 <a href="login?userid=lokesh">Dashboard with cookie login</a><br>
 <a href="dashboard">Dashboard without cookie login</a>
</body>
</html
```

Web.xml:

```xml
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="http://xmlns.jcp.org/xml/ns/javaee"
xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
http://xmlns.jcp.org/xml/ns/javaee/web-app_4_0.xsd" id="WebApp_ID"
version="4.0">
 <display-name>CookieTrackingDemo</display-name>
 <welcome-file-list>
 <welcome-file>index.html</welcome-file>
 <welcome-file>index.htm</welcome-file>
 <welcome-file>index.jsp</welcome-file>
 <welcome-file>default.html</welcome-file>
 <welcome-file>default.htm</welcome-file>
 <welcome-file>default.jsp</welcome-file>
 </welcome-file-list>

 <servlet>
 <servlet-name>LoginServlet</servlet-name>
 <servlet-class>LoginServlet</servlet-class>
 </servlet>
 <servlet>
 <servlet-name>Dashboard</servlet-name>
 <servlet-class>Dashboard</servlet-class>
 </servlet>

 <servlet-mapping>
 <servlet-name>Dashboard</servlet-name>
 <url-pattern>/dashboard</url-pattern>
 </servlet-mapping>
 <servlet-mapping>
 <servlet-name>LoginServlet</servlet-name>
 <url-pattern>/login</url-pattern>
 </servlet-mapping>
</web-app>
```