9.Write a Program to demonstrate Session Tracking using an HTTP Session:

Index.html:

```html
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
        <a href="LoginServlet">Dashboard with Session based login</a><br>
        <a href="Dashboard">Dashboard without Session based login</a>

</body>
</html>
```

LoginServlet.java

```java
import java.io.IOException;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
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)
```

```java
     */
    protected void doGet(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
            // TODO Auto-generated method stub

                String userId = request.getParameter("userid");
                HttpSession session=request.getSession();
            session.setAttribute("userid",  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);
        }

}
```

Dashboard.java:

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

import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
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
```

```java
    }

    /**
     * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse
response)
     */
    protected void doGet(HttpServletRequest request, HttpServletResponse
response) throws ServletException, IOException {
            // TODO Auto-generated method stub

        PrintWriter out = response.getWriter();
        out.println("<html><body>");

        HttpSession session=request.getSession(false);
        String userId = null;
        if (session.getAttribute("userid") != null)
            userId =(String)session.getAttribute("userid");
        if (userId == null ) {
            out.println("No UserId was found in session.<br>");
        } else {
            out.println("UserId obtained from session :" + userId + "<br>");
        }
        out.println("</body></html>");

    }

    /**
     * @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);
    }

}
```

Web.xml:

```xml
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="http://java.sun.com/xml/ns/javaee"
xsi:schemaLocation="http://java.sun.com/xml/ns/javaee
http://java.sun.com/xml/ns/javaee/web-app_2_5.xsd" id="WebApp_ID" version="2.5">
  <display-name>HTTPSessionDemo</display-name>
  <welcome-file-list>
    <welcome-file>index.html</welcome-file>
    <welcome-file>index.jsp</welcome-file>
    <welcome-file>index.htm</welcome-file>
    <welcome-file>default.html</welcome-file>
    <welcome-file>default.jsp</welcome-file>
    <welcome-file>default.htm</welcome-file>
  </welcome-file-list>
```

```xml
<servlet>
  <description></description>
  <display-name>LoginServlet</display-name>
  <servlet-name>LoginServlet</servlet-name>
  <servlet-class>LoginServlet</servlet-class>
</servlet>
<servlet-mapping>
  <servlet-name>LoginServlet</servlet-name>
  <url-pattern>/LoginServlet</url-pattern>
</servlet-mapping>
<servlet>
  <description></description>
  <display-name>Dashboard</display-name>
  <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>
</web-app>
```

Output:

No UserId was found in session.