	Marwadi University
	Faculty of Technology
	Department of Information and Communication Technology

| **Subject: Advanced Java (01CT1623)** | **Aim:** A servlet program to do session tracking and session counter using sessionListener. |
| **Experiment No:-** 06 | **Date:-** | **Enrollment No:-** 92200133030 |

Objective:- A servlet program to do session tracking and session counter using sessionListener.

Code :-

SessionCounterListener.java

```java
package com.sessionmanagement;

import javax.servlet.annotation.WebListener;
import javax.servlet.http.*;

@WebListener
public class SessionCounterListener implements HttpSessionListener {

    private static int activeSessions;

    public static int getActiveSessions() {
        return activeSessions;
    }

    @Override
    public void sessionCreated(HttpSessionEvent se) {
        activeSessions++;
//        System.out.println("Session Created:: Total Sessions: " + activeSessions);
        se.getSession().setAttribute("counter", new Counter());
    }

    @Override
    public void sessionDestroyed(HttpSessionEvent se) {
        activeSessions--;
//        System.out.println("Session Destroyed:: Total Sessions: " + activeSessions);
    }

    public class Counter {
        private int count;

        public int getCount() {
            return count;
        }

        public void increment() {
            count++;
        }
    }
}
```

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SessionCounterServlet.java

```java
package com.sessionmanagement;

import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.*;
import java.io.IOException;
import java.io.PrintWriter;

@WebServlet("/SessionCounterServlet")
public class SessionCounterServlet extends HttpServlet {

    @Override
    protected void doGet(HttpServletRequest req, HttpServletResponse resp) throws IOException {
        resp.setContentType("text/html");
        PrintWriter out = resp.getWriter();

        HttpSession session = req.getSession();
        session.setMaxInactiveInterval(60);
        SessionCounterListener.Counter counter = (SessionCounterListener.Counter)
session.getAttribute("counter");

        counter.increment();

        out.println("<html><head><title>Session Counter</title></head><body>");
        out.println("<h2>Session Counter Example</h2>");
        out.println("<p>Total Sessions: " + SessionCounterListener.getActiveSessions() + "</p>");
        out.println("<p>Session ID: " + session.getId() + "</p>");
        out.println("<p>Page Counter for this session: " + counter.getCount() + "</p>");

        out.println("<form action='SessionCounterServlet' method='POST'>");
        out.println("<input type='submit' name='action' value='Add Session'>  ");
        out.println("<input type='submit' name='action' value='Remove Current Session'>");
        out.println("</form>");

        out.println("</body></html>");
    }

    @Override
    protected void doPost(HttpServletRequest req, HttpServletResponse resp) throws ServletException,
IOException {
        String action = req.getParameter("action");
        if (action != null) {
            if (action.equals("Add Session")) {
                Cookie[] cookies = req.getCookies();
                for (Cookie cookie : cookies) {
                    if (cookie.getName().equals("JSESSIONID")) {
                        cookie.setMaxAge(0);
```

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```
                    resp.addCookie(cookie);
                    resp.sendRedirect(req.getContextPath() + "/SessionCounterServlet");
                }
            }
        } else if (action.equals("Remove Current Session")) {
            HttpSession session = req.getSession(false);
            if (session != null) {
                session.setMaxInactiveInterval(60);
                session.invalidate();
            }
            resp.sendRedirect(req.getContextPath() + "/SessionCounterServlet");
            return;
        }
    }

    doGet(req, resp);
    }
}
```

Output:-

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