Aim:

To write servlet program for Session tracking using cookies

Program:
Registration form :

```java
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;
@WebServlet(urlPatterns = {"/greetings"})
public class greetings extends HttpServlet {
    protected void processRequest(HttpServletRequest request, HttpServletResponse response)
            throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        Cookie ck[]=request.getCookies();

        try (PrintWriter out = response.getWriter()) {
            /* TODO output your page here. You may use following sample code. */
            out.println("<!DOCTYPE html>");
            out.println("<html>");
            out.println("<head>");
            out.println("<title>Result</title>");
            out.println("</head>");
            for(int i=0;i<ck.length;i++){
            if("name".equals(ck[i].getName())){
            out.println("<h1> Welcome "+ck[i].getValue()+"</h1>");}
        }
            out.println("</body>");
            out.println("</html>");
        }
    }
    @Override
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
            throws ServletException, IOException {
        processRequest(request, response);
    }
    @Override
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
            throws ServletException, IOException {
        processRequest(request, response);
    }
    @Override
    public String getServletInfo() {
        return "Short description";
    }// </editor-fold>

}
```

Output:

Enter username: abc

Enter email: xyz@gmail.com

Enter password: 123456

Submit

Login page:

```html
<!DOCTYPE html>
<!--
To change this license header, choose License Headers in Project Properties.
To change this template file, choose Tools | Templates
and open the template in the editor.
-->
<html>
  <head>
    <title>Session tracking</title>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
  </head>
  <body>
    <form action="http://localhost:8080/ExpNo7/welcome" method="post">
      Enter username:<input type="text" name="username"><br><br>
      Enter email:<input type="text" name="email"><br><br>
      Enter password:<input type="text" name="password">
      <br><br>
      <input type="submit">
    </form>
  </body>
</html>
```

Output:

SUCCESSFULLY ADDED

Click

Welcome page:

```java
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;
@WebServlet(urlPatterns = {"/welcome"})
public class welcome extends HttpServlet {
    protected void processRequest(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
    response.setContentType("text/html;charset=UTF-8");
    String name=request.getParameter("username");
    String mail=request.getParameter("mail");
    String pw=request.getParameter("password");
    Cookie c=new Cookie("name",name);
    Cookie c1=new Cookie("mail",mail);
    Cookie c2=new Cookie("password",pw);
    c.setMaxAge(10000);
    c1.setMaxAge(10000);
    c2.setMaxAge(10000);
    response.addCookie(c);
    response.addCookie(c1);
    response.addCookie(c2);
    try (PrintWriter out = response.getWriter()) {
      out.println("<!DOCTYPE html>");
      out.println("<html>");
      out.println("<head>");
      out.println("<title>Result</title>");
      out.println("</head>");
      out.println("<body>");
      out.println("<h1>SUCCESSFULLY ADDED</h1>");
      out.println("<a href='http://localhost:8080/ExpNo7/greetings'>Click</a>");
      out.println("</body>");
      out.println("</html>");
    }
  }
```

```
    @Override
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
      processRequest(request, response);
    }
    @Override
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
      processRequest(request, response);
    }
    @Override
    public String getServletInfo() {
      return "Short description";
    }// </editor-fold>

}
```

Output:

Welcome abc

Observation(20)	
Record(5)	
Total(25)	
Initial	

Result:

    Thus,the program to implement servlet program for Session tracking using cookies

written,executed and the output isverified.