

HTTP Session Code:

```
// Import required java libraries

import java.io.*;

import javax.servlet.*;

import javax.servlet.http.*;

import java.util.*;

// Extend HttpServlet class

public class httpsession extends HttpServlet {

    public void doGet(HttpServletRequest request, HttpServletResponse response)

        throws ServletException, IOException {

        // Create a session object if it is already not created.

        HttpSession session = request.getSession(true);

        // Get session creation time.

        Date createTime = new Date(session.getCreationTime());

        // Get last access time of this web page.

        Date lastAccessTime = new Date(session.getLastAccessedTime());

        String title = "Welcome Back to my website";

        Integer visitCount = new Integer(0);

        String visitCountKey = new String("visitCount");

        String userIDKey = new String("userID");

        String userID = new String("ABCD");

        // Check if this is new comer on your web page.

        if (session.isNew()) {

            title = "Welcome to my website";

            session.setAttribute(userIDKey, userID);
```

```
} else {  
    visitCount = (Integer)session.getAttribute(visitCountKey);  
    visitCount = visitCount + 1;  
    userID = (String)session.getAttribute(userIDKey);  
}  
session.setAttribute(visitCountKey,visitCount);  
// Set response content type  
response.setContentType("text/html");  
PrintWriter out = response.getWriter();  
out.println( title + session.getId()+createTime+lastAccessTime + userID+visitCount);  
}  
}
```

Url rewrite:

First servlet:

```
import java.io.*;

import javax.servlet.*;

import javax.servlet.http.*;

public class FirstServlet extends HttpServlet {

    public void doGet(HttpServletRequest request, HttpServletResponse response){

        try{

            response.setContentType("text/html");

            PrintWriter out = response.getWriter();

            String n=request.getParameter("userName");

            out.print("Welcome "+n);

            //appending the username in the query string
            out.print("<a href='servlet2?uname="+n+"'>visit</a>");

            out.close();

            }catch(Exception e){System.out.println(e);}

        }

    }
```

Second servlet:

```
import java.io.*;
```

```
import javax.servlet.*;
```

```
import javax.servlet.http.*;
```

```
public class SecondServlet extends HttpServlet {
```

```
    public void doGet(HttpServletRequest request, HttpServletResponse response)
```

```
    {
```

```
        try{
```

```
            response.setContentType("text/html");
```

```
            PrintWriter out = response.getWriter();
```

```
            //getting value from the query string
```

```
            String n=request.getParameter("uname");
```

```
            out.print("Hello "+n);
```

```
            out.close();
```

```
        }catch(Exception e){System.out.println(e);}
    }
```

```
}
```

Cookies:

First Servlet:

```
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;

public class FirstServlet extends HttpServlet {

    public void doPost(HttpServletRequest request, HttpServletResponse response){
        try{

            response.setContentType("text/html");
            PrintWriter out = response.getWriter();

            String n=request.getParameter("userName");
            out.print("Welcome "+n);

            Cookie ck=new Cookie("uname",n);//creating cookie object
            response.addCookie(ck);//adding cookie in the response

            //creating submit button
            out.print("<form action='servlet2'>");
            out.print("<input type='submit' value='go'>");
            out.print("</form>");

            out.close();

        }catch(Exception e){System.out.println(e);}
    }
}
```

Second Servlet:

```
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;

public class SecondServlet extends HttpServlet {

    public void doPost(HttpServletRequest request, HttpServletResponse response){
        try{

            response.setContentType("text/html");
            PrintWriter out = response.getWriter();

            Cookie ck[]=request.getCookies();
            out.print("Hello "+ck[0].getValue());

            out.close();

        }catch(Exception e){System.out.println(e);}
    }

}
```