5. Write a program to demonstrate a Servlet Filter

DashboardServlet.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 org.apache.catalina.connector.Response;
public class DashboardServlet extends HttpServlet {
     @Override
     protected void doGet(HttpServletRequest req, HttpServletResponse
resp) throws ServletException, IOException {
           // TODO Auto-generated method stub
           PrintWriter out= resp.getWriter();
           out.print("<h1>Welcome user to the Dashboard<h1>");
     }
     @Override
     protected void doPost(HttpServletRequest req, HttpServletResponse
resp) throws ServletException, IOException {
           // TODO Auto-generated method stub
           doGet(req, resp);
     }
}
Filter1.java
import java.io.IOException;
import javax.servlet.Filter;
import javax.servlet.FilterChain;
import javax.servlet.FilterConfig;
import javax.servlet.ServletException;
import javax.servlet.ServletRequest;
import javax.servlet.ServletResponse;
public class Filter1 implements Filter {
```

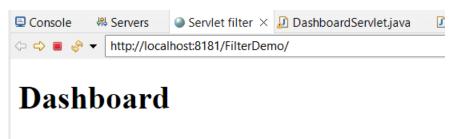
```
public void destroy() {
     public void doFilter(ServletRequest req,ServletResponse
res, FilterChain chain ) throws IOException, ServletException
           //method
           String name=req.getParameter("username");
           if(name!=null)
                chain.doFilter(req, res);
           else
                res.getWriter().print("<h1>User is not Valid</h1>");
     }
     public void init (FilterConfig fConfig) throws ServletException
}
InfoServlet.java
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import org.apache.catalina.connector.Response;
@WebServlet("/info")
public class InfoServlet extends HttpServlet {
```

```
@Override
     protected void doGet(HttpServletRequest req, HttpServletResponse
resp) throws ServletException, IOException {
           // TODO Auto-generated method stub
           PrintWriter out= resp.getWriter();
           out.print("<h1>Welcome to Information Servlet</h1>");
     }
     @Override
     protected void doPost(HttpServletRequest req, HttpServletResponse
resp) throws ServletException, IOException {
           // TODO Auto-generated method stub
           doGet(req, resp);
     }
ProfileServlet.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 org.apache.catalina.connector.Response;
public class ProfileServlet extends HttpServlet {
     @Override
     protected void doGet(HttpServletRequest req, HttpServletResponse
resp) throws ServletException, IOException {
           // TODO Auto-generated method stub
           PrintWriter out= resp.getWriter();
           out.print("<h1>Welcome to Profile Servlet</h1>");
     }
     @Override
```

```
protected void doPost(HttpServletRequest req, HttpServletResponse
resp) throws ServletException, IOException {
           // TODO Auto-generated method stub
           doGet(req, resp);
     }
}
index.html
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Servlet filter</title>
</head>
<body>
<h1>Dashboard</h1>
<a href="dashboard?username=arul">Access Dashboard With Para</a>
<a href="dashboard">Access Dashboard Without Para</a>
<br><br><br>>
<h1>Profile</h1>
<a href="profile?username=arul">Access Profile With Para</a>
<a href="profile">Access Profile Without Para</a>
<br><br><br>></pr>
<h1>Access Information</h1>
<a href="info">Access Info</a>
</body>
</html>
```

```
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"</pre>
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>FilterDemo</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>
  <servlet>
    <description></description>
    <display-name>DashboardServlet</display-name>
    <servlet-name>DashboardServlet
    <servlet-class>DashboardServlet</servlet-class>
  </servlet>
  <servlet-mapping>
    <servlet-name>DashboardServlet</servlet-name>
    <url-pattern>/dashboard</url-pattern>
  </servlet-mapping>
  <servlet>
    <description></description>
    <display-name>InfoServlet</display-name>
    <servlet-name>InfoServlet</servlet-name>
    <servlet-class>InfoServlet</servlet-class>
  </servlet>
  <servlet-mapping>
    <servlet-name>InfoServlet</servlet-name>
    <url-pattern>/info</url-pattern>
  </servlet-mapping>
  <servlet>
    <description></description>
    <display-name>ProfileServlet</display-name>
    <servlet-name>ProfileServlet</servlet-name>
    <servlet-class>ProfileServlet</servlet-class>
  </servlet>
  <servlet-mapping>
    <servlet-name>ProfileServlet</servlet-name>
    <url-pattern>/profile</url-pattern>
  </servlet-mapping>
  <filter>
     <filter-name>Filter1</filter-name>
```

OUTPUT



Access Dashboard With Para

Access Dashboard Without Para

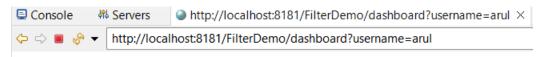
Profile

Access Profile With Para

Access Profile Without Para

Access Information

Access Info



Welcome user to the Dashboard

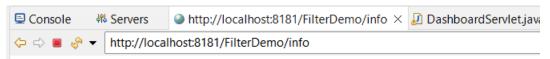


User is not Valid



Welcome to Profile Servlet





Welcome to Information Servlet