## 5 Write a program to demonstrate a Servlet Filter.

### Index.html

```html
<html>
<head>
<meta charset="UTF-8">
<title>Filter Demo</title>
</head>
<body>
 <a href="dashboard?userid=teju">Account Dashboard (allow filter)</a><br>
 <a href="profile?userid=teju">Account Profile (allow filter)</a><br>
 <a href="dashboard">Account Dashboard (block filter)</a><br>
 <a href="info">Info Page </a><br>
</body>
</html>
```

### Account profile:

```java
package practice;

import java.io.IOException;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
/**
 * Servlet implementation class AccountDashboard
 */
@WebServlet("/AccountDashboard")
public class AccountDashboard extends HttpServlet {
 private static final long serialVersionUID = 1L;

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

 response.getWriter().write("I am in Account Dashboard after passing
through LoginFilter");
 }
 /**
 * @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);
```

```
  }
}
```

## Account dashboard:

```java
package practice;
```

```java
import java.io.IOException;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
/**
 * Servlet implementation class AccountDashboard
 */
@WebServlet("/AccountDashboard")
public class AccountDashboard extends HttpServlet {
 private static final long serialVersionUID = 1L;

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

 response.getWriter().write("I am in Account Dashboard after passing
through LoginFilter");
 }
 /**
 * @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);
 }
}
```

## Info page:

```java
package practice;

import java.io.IOException;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
```

```java
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
/**
 * Servlet implementation class InfoPage
 */
@WebServlet("/InfoPage")
public class InfoPage extends HttpServlet {
	private static final long serialVersionUID = 1L;

	/**
	 * @see HttpServlet#HttpServlet()
	 */
	public InfoPage() {
		super();
		// TODO Auto-generated constructor stub
	}
	/**
	 * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)
	 */
	protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
		// TODO Auto-generated method stub
		response.getWriter().write("I am in InfoPage");
	}
	/**
	 * @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);
	}
}
```

**Login filter:**

```java
package practice;

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;
import javax.servlet.annotation.WebFilter;
/**
 * Servlet Filter implementation class LoginFilter
 */
@WebFilter("/LoginFilter")
public class LoginFilter implements Filter {
	/**
	 * Default constructor.
	 */
	public LoginFilter() {
		// TODO Auto-generated constructor stub
	}
	/**
```

```java
 * @see Filter#destroy()
 */
public void destroy() {
// TODO Auto-generated method stub
}
/**
 * @see Filter#doFilter(ServletRequest, ServletResponse, FilterChain)
 */
public void doFilter(ServletRequest request, ServletResponse response,
FilterChain chain) throws IOException, ServletException {
// TODO Auto-generated method stub
// place your code here

String userId = request.getParameter("userid");
if( userId != null){
chain.doFilter(request, response);
}


}
/**
 * @see Filter#init(FilterConfig)
 */
public void init(FilterConfig fConfig) throws ServletException {
// TODO Auto-generated method stub
}
}
```