**Write a program to demonstrate a Servlet Filter.**

<!DOCTYPE html>

<html>

<head>

<meta charset="ISO-8859-1">

<title>Insert title here</title>

</head>

<body>

<h2>Welcome To GFG</h2>

<form action="GFGServlet">

<button type="submit">Click here to go to the Servlet</button>

</form>

</body>

</html>

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;

/\*\*

\* Servlet implementation class GFGServlet

\*/

*@WebServlet*("/GFGServlet")

public class GFGServlet extends HttpServlet {

private static final long ***serialVersionUID*** = 1L;

/\*\*

\* **@see** HttpServlet#HttpServlet()

\*/

public GFGServlet() {

super();

// **TODO** Auto-generated constructor stub

}

/\*\*

\* **@see** HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)

\*/

protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

PrintWriter out = response.getWriter();

out.println("<h1>Welcome to the Servlet.");

System.***out***.println("GFGServlet is running");

}

/\*\*

\* **@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);

}

}

import java.io.IOException;

import java.io.PrintWriter;

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;

import javax.servlet.http.HttpFilter;

/\*\*

\* Servlet Filter implementation class GFG

\*/

*@WebFilter*(servletNames = { "GFGServlet" })

public class GFG extends HttpFilter implements Filter {

/\*\*

\* **@see** HttpFilter#HttpFilter()

\*/

public GFG() {

super();

// **TODO** Auto-generated constructor stub

}

/\*\*

\* **@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 {

PrintWriter out = response.getWriter();

// This will print output on console

System.***out***.println(

"Before filter - Preprocessing before servlet");

// some authentication if required

chain.doFilter(request, response);

// This will print output on console

System.***out***.println(

"After servlet - Following code will execute after running the servlet - PostProcessing");

}

/\*\*

\* **@see** Filter#init(FilterConfig)

\*/

public void init(FilterConfig fConfig) throws ServletException {

// **TODO** Auto-generated method stub

}

}