

4. Write a program to demonstrate the concept of Servlet Classes and Interfaces.

Servletinterface.java

```
import javax.servlet.*;
import javax.servlet.annotation.WebServlet;

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;

/**
 * Servlet implementation class Servletinterface
 */
public class Servletinterface implements Servlet {
    ServletConfig config=null;
    public void init(ServletConfig config){
        this.config=config;
        System.out.println("Initialization complete");
    }

    public void service(ServletRequest req,ServletResponse res)
    throws IOException,ServletException{
        res.setContentType("text/html");
        PrintWriter pwriter=res.getWriter();
        pwriter.print("<html>");
        pwriter.print("<body>");
        pwriter.print("<h1>In the service() method</h1><br>");
        pwriter.print("</body>");
        pwriter.print("</html>");
    }
    public void destroy(){
        System.out.println("In destroy() method");
    }
    public ServletConfig getServletConfig(){
        return config;
    }
    public String getServletInfo(){
        return "This is a sample servlet info";
    }
}
```

Index.html

```
<!DOCTYPE html>
<html>
<head>
```

```
<meta charset="ISO-8859-1">
<title>Servlet Interface</title>
</head>
<body>
<a href="interface">Show Servlet Interface</a>
</body>
</html>
```

web.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
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>ClassandInterface</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>Servletinterface</display-name>
    <servlet-name>Servletinterface</servlet-name>
    <servlet-class>Servletinterface</servlet-class>
  </servlet>
  <servlet-mapping>
    <servlet-name>Servletinterface</servlet-name>
    <url-pattern>/interface</url-pattern>
  </servlet-mapping>
</web-app>
```

OUTPUT

