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

**Index.html**

**<!DOCTYPE html>**

**<html>**

**<head>**

**<meta charset="UTF-8">**

**<title>Servlet Interfaces</title>**

**</head>**

**<body>**

**<a href="interface">Show Servlet Interface</a>**

**</body>**

**</html>**

**Interface demo:**

**package practice;**

**import java.io.\*;**

**import javax.servlet.\*;**

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

**/\*\***

**\* Servlet implementation class InterfaceDemo**

**\*/**

**@WebServlet("/InterfaceDemo")**

**public class InterfaceDemo 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("In the service() method<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";**

**}**

**} Web.xml**

**<?xml version=*"1.0"* encoding=*"UTF-8"*?>**

**<web-app xmlns:xsi=*"http://www.w3.org/2001/XMLSchema-instance"***

**xmlns=*"http://xmlns.jcp.org/xml/ns/javaee"***

**xsi:schemaLocation=*"http://xmlns.jcp.org/xml/ns/javaee***

***http://xmlns.jcp.org/xml/ns/javaee/web-app\_4\_0.xsd"* id=*"WebApp\_ID"***

**version=*"4.0"*>**

**<display-name>Servlet Interface</display-name>**

**<welcome-file-list>**

**<welcome-file>index.html</welcome-file>**

**<welcome-file>index.htm</welcome-file>**

**<welcome-file>index.jsp</welcome-file>**

**<welcome-file>default.html</welcome-file>**

**<welcome-file>default.htm</welcome-file>**

**<welcome-file>default.jsp</welcome-file>**

**</welcome-file-list>**

**<servlet>**

**<servlet-name>InterfaceDemo</servlet-name>**

**<servlet-class>InterfaceDemo</servlet-class>**

**</servlet>**

**<servlet-mapping>**

**<servlet-name>InterfaceDemo</servlet-name>**

**<url-pattern>/interface</url-pattern>**

**</servlet-mapping>**

**</web-app>**