

4. Write a program to demonstrate the Concept of servlet classes and interfaces:

Index.html:

```
<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<a href="interfacedemo">Show Servlet interfacedemo</a>
</body>
</html>
```

Interfacedemo.java

```
import java.io.IOException;
import java.io.PrintWriter;

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://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>Assisted4</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>interfacedemo</display-name>
        <servlet-name>interfacedemo</servlet-name>
        <servlet-class>interfacedemo</servlet-class>
    </servlet>
    <servlet-mapping>
        <servlet-name>interfacedemo</servlet-name>
        <url-pattern>/interfacedemo</url-pattern>
    </servlet-mapping>
</web-app>

```

Output:

