**Experiment No: 4**

**Roll No:50**

**Date:**

**Title: Program on Servlet**

**A) Write a program to add two numbers using servlet.**

**i) index.html**

<html>

<body bgcolor="pink">

<form action="HelloServlet" method="POST">

Enter First Number : <input type ="text" name="no1"/><br><br>

Enter Second Number: <input type ="text" name="no2"/><br>

<input type="submit" value="Add">

</form>

</html>

**ii) web.xml**

<web-app>

<servlet>

<servlet-name>HelloServlet</servlet-name>

<servlet-class>HelloServlet</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>HelloServlet</servlet-name>

<url-pattern>/HelloServlet</url-pattern>

</servlet-mapping>

<session-config>

<session-timeout>30 </session-timeout>

</session-config>

</web-app>

**iii) HelloServlet.java**

import javax.servlet.http.\*;

import javax.servlet.\*;

import java.io.\*;

public class HelloServlet extends HttpServlet {

public void doPost(HttpServletRequest req,HttpServletResponse rep)throws ServletException, IOException

{

try ( PrintWriter out = rep.getWriter())

{

int no1 =Integer.parseInt(req.getParameter("no1"));

int no2 =Integer.parseInt(req.getParameter("no2"));

int c=no2+no1;

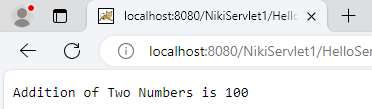
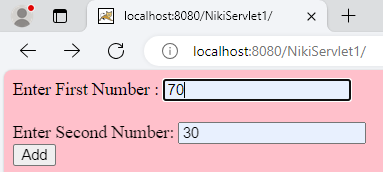
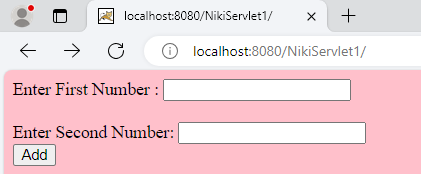
out.println("Addition of Two Numbers is "+c);

}

}

}

**Output:**



**Experiment No: 5**

**Roll No:50**

**Date:**

**Title: Program on Cookies and Session**

**A) Cookies**

1. **index.html**

<html>

<body bgcolor="pink">

<form action="ser2" method="post">

Name:<input type="text" name="userName"/><br/>

<input type="submit" value="go"/>

</form>

</html>

**ii) web.xml**

<web-app>

<servlet>

<servlet-name>s1</servlet-name>

<servlet-class>FirstServlet</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>s1</servlet-name>

<url-pattern>/servlet1</url-pattern>

</servlet-mapping>

<servlet>

<servlet-name>s2</servlet-name>

<servlet-class>SecondServlet</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>s2</servlet-name>

<url-pattern>/ser2</url-pattern>

</servlet-mapping>

</web-app>

**iii) FirstServlet.java**

import java.io.\*;

import javax.servlet.\*;

public class FirstServlet extends HttpServlet {

public void doPost(HttpServletRequest request, HttpServletResponse response){

try{

response.setContentType("text/html");

PrintWriter out = response.getWriter();

String n=request.getParameter("userName");

out.print("Welcome "+n);

Cookie ck=new Cookie("uname",n);

response.addCookie(ck);

out.print("<form action='servlet2'>");

out.print("<input type='submit' value='go'>");

out.print("</form>");

out.close();

}catch(Exception e){System.out.println(e);}

}

}

**iv) SecondServlet.java**

import java.io.\*;

import javax.servlet.\*;

import javax.servlet.http.\*;

public class SecondServlet extends HttpServlet {

public void doPost(HttpServletRequest request, HttpServletResponse response){

try{

response.setContentType("text/html");

PrintWriter out = response.getWriter();

Cookie ck[]=request.getCookies();

out.print("Hello "+ck[0].getValue());

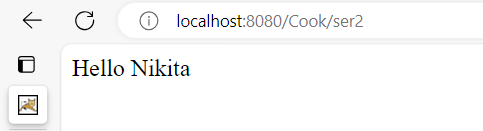
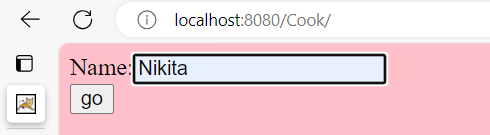
out.close();

}catch(Exception e){System.out.println(e);}

}

}

**Output:**



**B) Hidden**

**i) index.html**

<html>

<body bgcolor="Sky Blue">

<form action="servlet1">

Name:<input type="text" name="userName"/><br/>

<input type="submit" value="go"/>

</form>

</html>

**ii)web.xml**

<web-app>

<servlet>

<servlet-name>s1</servlet-name>

<servlet-class>FirstServlet</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>s1</servlet-name>

<url-pattern>/servlet1</url-pattern>

</servlet-mapping>

<servlet>

<servlet-name>s2</servlet-name>

<servlet-class>SecondServlet</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>s2</servlet-name>

<url-pattern>/servlet2</url-pattern>

</servlet-mapping>

</web-app>

**iii)FirstServlet.java**

import java.io.\*;

import javax.servlet.\*;

import javax.servlet.http.\*;

public class FirstServlet extends HttpServlet {

public void doGet(HttpServletRequest request, HttpServletResponse response){

try{

response.setContentType("text/html");

PrintWriter out = response.getWriter();

String n=request.getParameter("userName");

out.print("Welcome "+n);

out.print("<form action='servlet2'>");

out.print("<input type='hidden' name='uname' value='"+n+"'>");

out.print("<input type='submit' value='go'>");

out.print("</form>");

out.close();

}catch(Exception e){System.out.println(e);}

}

}

**iv) SecondServlet.java**

import java.io.\*;

import javax.servlet.\*;

import javax.servlet.http.\*;

public class SecondServlet extends HttpServlet {

public void doGet(HttpServletRequest request, HttpServletResponse response) {

try{

response.setContentType("text/html");

PrintWriter out = response.getWriter();

String n=request.getParameter("uname");

out.print("Hello "+n);

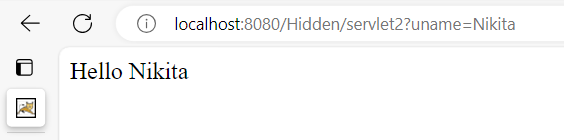
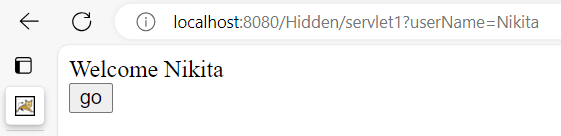
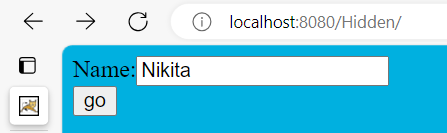
out.close();

}catch(Exception e){System.out.println(e);}

}

}

**Output:**



**C) URL Rewriting**

**i) index.html**

<html>

<body bgcolor="pink">

<form action="servlet1">

Name:<input type="text" name="userName"/><br/>

<input type="submit" value="go"/>

</form>

</html>

**ii)web.xml**

<web-app>

<servlet>

<servlet-name>s1</servlet-name>

<servlet-class>FirstServlet</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>s1</servlet-name>

<url-pattern>/servlet1</url-pattern>

</servlet-mapping>

<servlet>

<servlet-name>s2</servlet-name>

<servlet-class>SecondServlet</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>s2</servlet-name>

<url-pattern>/servlet2</url-pattern>

</servlet-mapping>

</web-app>

**iii)FirstServlet.java**

import java.io.\*;

import javax.servlet.\*;

import javax.servlet.http.\*;

public class FirstServlet extends HttpServlet {

public void doGet(HttpServletRequest request, HttpServletResponse response){

try{

response.setContentType("text/html");

PrintWriter out = response.getWriter();

String n=request.getParameter("userName");

out.print("Welcome " + n);

out.print("<br><a href='servlet2?uname= " +n+" '>visit</a>");

out.close();

}catch(Exception e){System.out.println(e);}

}

}

**iv) SecondServlet.java**

import java.io.\*;

import javax.servlet.\*;

import javax.servlet.http.\*;

public class SecondServlet extends HttpServlet {

public void doGet(HttpServletRequest request, HttpServletResponse response) {

try{

response.setContentType("text/html");

PrintWriter out = response.getWriter();

String n=request.getParameter("uname");

out.print("Hello "+n);

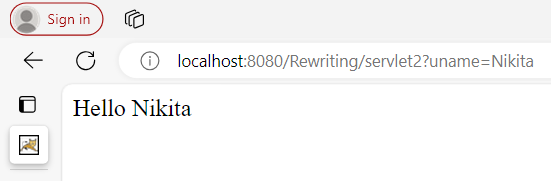
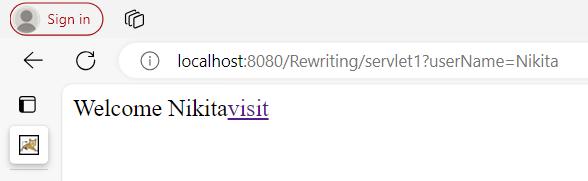
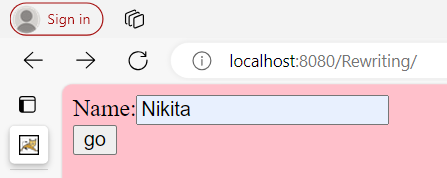
out.close();

}catch(Exception e){System.out.println(e);}

}

}

**Output:**



**D) HttpSession**

**i) index.html**

<html>

<body bgcolor="pink">

<form action="servlet1">

Name:<input type="text" name="userName"/><br/>

<input type="submit" value="go"/>

</form>

</html>

**ii)web.xml**

<web-app>

<servlet>

<servlet-name>s1</servlet-name>

<servlet-class>FirstServlet</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>s1</servlet-name>

<url-pattern>/servlet1</url-pattern>

</servlet-mapping>

<servlet>

<servlet-name>s2</servlet-name>

<servlet-class>SecondServlet</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>s2</servlet-name>

<url-pattern>/servlet2</url-pattern>

</servlet-mapping>

</web-app>

**iii)FirstServlet.java**

import java.io.\*;

import javax.servlet.\*;

import javax.servlet.http.\*;

public class FirstServlet extends HttpServlet {

public void doGet(HttpServletRequest request, HttpServletResponse response){

try{

response.setContentType("text/html");

PrintWriter out = response.getWriter();

String n=request.getParameter("userName");

out.print("Welcome "+n);

HttpSession session=request.getSession();

session.setAttribute("uname",n);

out.print("<a href='servlet2'>visit</a>");

out.close();

}catch(Exception e){System.out.println(e);}

}

}

**iv) SecondServlet.java**

import java.io.\*;

import javax.servlet.\*;

import javax.servlet.http.\*;

public class SecondServlet extends HttpServlet {

public void doGet(HttpServletRequest request, HttpServletResponse response) {

try{

response.setContentType("text/html");

PrintWriter out = response.getWriter();

HttpSession session=request.getSession(false);

String n=(String)session.getAttribute("uname");

out.print("Hello "+n);

out.close();

}catch(Exception e){System.out.println(e);}

}

}

**Output:**

