Experiment No. 1.1

Student Name: Rishav Kumar   **UID:** 22MCC20039

Branch: MCA - CCD   **Section/Group:** 22MCD-1 / Grp A

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Subject Name: AIP Lab   **Subject Code:** 22CAP-686

1. Aim/Overview of the Practical

Create a simple client server communication application while creating a HTML with form and two input fields like First Name and Last Name. Submit the data to a servlet where the form data is retrieved and displayed. Create form with GET method and another with POST method.

2. Task to be done

To create a simple form in HTML for adding two integers and then provide an action to the form that connects & submits the data to the servlet.

3. Algorithm:

⇨ Import the Java Servlet Libraries
⇨ Create the Servlet
⇨ Design HTML form with two fields asking for First & Second Numbers
⇨ Create the servlet object to display it.

4. Code/Step for the Practical

------------------GET index.html ------------------

```
<!DOCTYPE html>
<!--
Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
Click nbfs://nbhost/SystemFileSystem/Templates/JSP_Servlet/Html.html to edit this template
-->
<html>
  <head>
```

```html
<title>Login Form</title>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
  </head>
  <body>
    <form action="NewServlet" method="get">
      First Name:<input type="text" name="firstname"/><br><br>
      Last Name<input type="text" name="lastname"/><br><br>
      <input type="submit" value="Submit"/>

    </form>
  </body>
</html>
```

------------------GET NewServlet.java ------------------

```java
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;

public class NewServlet extends HttpServlet {

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

    response.setContentType("text/html");

    PrintWriter out = response.getWriter();

    //accept value of html text
        String firstname = request.getParameter("firstname");
        String lastname = request.getParameter("lastname");

        out.println("Your first name is : " +firstname);
        out.println("<br/>Your Last name is  : " +lastname);
  }}
```

```html
<!DOCTYPE html>
<!--
Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
Click nbfs://nbhost/SystemFileSystem/Templates/JSP_Servlet/Html.html to edit this template
-->
<html>
  <head>
    <title>Login Form</title>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
  </head>
  <body>
    <form action="NewServlet" method="post">
      First Name:<input type="text" name="firstname"/><br><br>
      Last Name<input type="text" name="lastname"/><br><br>
      <input type="submit" value="Submit"/>

    </form>
  </body>
</html>
```

```java
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;

public class NewServlet extends HttpServlet {


    @Override

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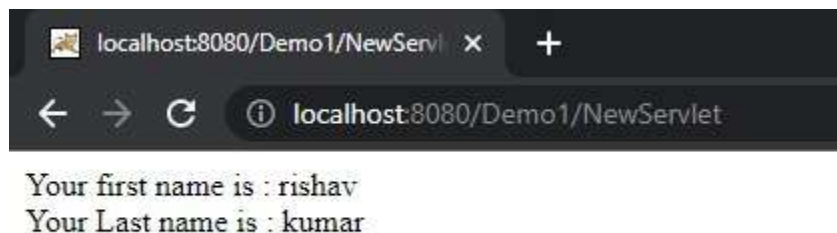
```
    throws ServletException, IOException {

        response.setContentType("text/html");

        PrintWriter out = response.getWriter();

            String firstname = request.getParameter("firstname");

            String lastname = request.getParameter("lastname");

            out.println("Your first name is : " +firstname);

            out.println("<br/>Your Last name is  : " +lastname);

    }

}
```

5. Result/Output/Writing Summary

GET


```
localhost:8080/Demo1/NewServl  ×  +

←  →  C    ⓘ localhost:8080/Demo1/NewServlet?firstname=rishav&lastname=kumar
```

Your first name is : rishav
Your Last name is : kumar

POST


```
localhost:8080/Demo1/NewServl  ×  +

←  →  C    ⓘ localhost:8080/Demo1/NewServlet
```

Your first name is : rishav
Your Last name is : kumar

6. Learning Outcomes (What I have learned)

1. Learned to implement the Tomcat server with NetBeans IDE.
2. Learned to create a servlet which receives the form data and display the respective output.