

Experiment - 9

Student Name: Devesh Chhimwal

UID: 21BCS9711

Branch: AIML

Section/Group : 21-AML12/B

Semester: 3rd

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Subject Name: Programming in Java

Subject Code: 21CSH-244

1. Experiment Title/Problem Statement: Create a HTML form containing a html form containing a text field and a button. By clicking on submit button, servlet is opened displaying a simple Hello message with the name entered in the text field.

2. Description: Servlets are the Java programs that run on the Java-enabled web server or application server. They are used to handle the request obtained from the webserver, process the request, produce the response, then send a response back to the webserver.

3. Steps:

START

Step 1 → Editor (Source code)

Step 2 → Java Compiler [javac.xxx.java] (Java Bytecode)

Step 3 → Java xxx

Step 4 → **Output**

STOP

4. Code:

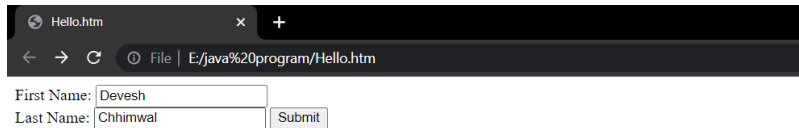
- **Servlet (java)**

```
J MyServer.java J MyClient.java J HelloForm.java X Hello.htm
J HelloForm.java
1  import java.io.*;
2  import javax.servlet.*;
3  import javax.servlet.http.*;
4
5  // Extend HttpServlet class
6  public class HelloForm extends HttpServlet {
7
8      public void doGet(HttpServletRequest request, HttpServletResponse response)
9          throws ServletException, IOException {
10
11          // Set response content type
12          response.setContentType("text/html");
13
14          PrintWriter out = response.getWriter();
15          String title = "Using GET Method to Read Form Data";
16          String docType =
17              "<!doctype html public \"-//w3c//dtd html 4.0 \" + \"transitional//en\">\n";
18
19          out.println(docType +
20              "<html>\n" +
21              "    <head><title>" + title + "</title></head>\n" +
22              "    <body bgcolor = \"#f0f0f0\">\n" +
23              "        <h1 align = \"center\">" + title + "</h1>\n" +
24              "        <ul>\n" +
25              "            <li><b>First Name</b>: "
26              + request.getParameter("first_name") + "\n" +
27              "            <li><b>Last Name</b>: "
28              + request.getParameter("last_name") + "\n" +
29              "        </ul>\n" +
30              "    </body>\n" +
31              "</html>"
32          );
33      }
34 }
```

- **Html code:**

```
MyServer.java  MyClient.java  HelloForm.java  Hello.htm X
Hello.htm > html
1  <html>
2  <body>
3      <form action = "HelloForm" method = "GET">
4          First Name: <input type = "text" name = "first_name">
5          <br />
6          Last Name: <input type = "text" name = "last_name" />
7          <input type = "submit" value = "Submit" />
8      </form>
9  </body>
10 </html>
```

5. Result/Output/Writing Summary:



First Name: Devesh
Last Name: Chhimwal Submit

6. Learning outcomes (What I have learnt):

- a. Learn about Servlet in java.
- b. Learn about connecting Servlet and HTML code.
- c. Learn about arrays and exception handling in java.

7. Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			