Experiment - 10

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Branch: AIML   **Section/Group:** 21-AML9/A
Semester: 3rd   **Date of Performance:** 12-11-2022
Subject Name: Programming in Java   **Subject Code:** 21CSH-244

Aim:

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
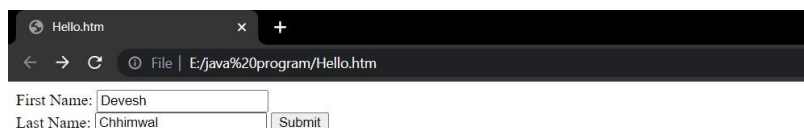Step 4 → **Output**

STOP

4. **Code:**

- **Servlet (java)**

```java
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;

// Extend HttpServlet class
public class HelloForm extends HttpServlet {

    public void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {

        // Set response content type
        response.setContentType("text/html");

        PrintWriter out = response.getWriter();
        String title = "Using GET Method to Read Form Data";
        String docType =
            "<!doctype html public \"-//w3c//dtd html 4.0 " + "transitional//en\">\n";

        out.println(docType +
            "<html>\n" +
                "<head><title>" + title + "</title></head>\n" +
                "<body bgcolor = \"#f0f0f0\">\n" +
                    "<h1 align = \"center\">" + title + "</h1>\n" +
                    "<ul>\n" +
                        " <li><b>First Name</b>: "
                        + request.getParameter("first_name") + "\n" +
                        " <li><b>Last Name</b>: "
                        + request.getParameter("last_name") + "\n" +
                    "</ul>\n" +
                "</body>" +
            "</html>"
        );
    }
}
```

- **Html code:**

```html
<html>
   <body>
      <form action = "HelloForm" method = "GET">
         First Name: <input type = "text" name = "first_name">
         <br />
         Last Name: <input type = "text" name = "last_name" />
         <input type = "submit" value = "Submit" />
      </form>
   </body>
</html>
```

5. Result/Output/Writing Summary:

First Name: Devesh
Last Name: Chhimwal   Submit

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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.			