Exp no: 03 Date:	**Introduction to JavaServelet Progra**

Aim:

To write a **Java Servlet** program that displays **"Hello, World!"** on a web browser when the servlet is accessed via an HTTP request.

Algorithm:

- Start by importing necessary packages (javax.servlet.*,javax.servlet.http.*, java.io.*).
- Create a class that extends HttpServlet.
- Override the doGet() method to handle GET requests.
- Set the content type of the response to "text/html".
- Use a PrintWriter to write "Hello, World!" to the browser.
- Compile the servlet and deploy it to a servlet container like Apache Tomcat.
- Access the servlet through a web browser using the correct URL mapping.

Java CODE:

Hello World:

```java
package main;

import java.io.IOException;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

@WebServlet("/hello")
public class HelloWorldServlet extends HttpServlet {
    private static final long serialVersionUID = 1L;

    @Override
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
            throws ServletException, IOException {
        response.setContentType("text/html");
        response.getWriter().println("<h1>Hello, World!</h1>");
    }
}
```
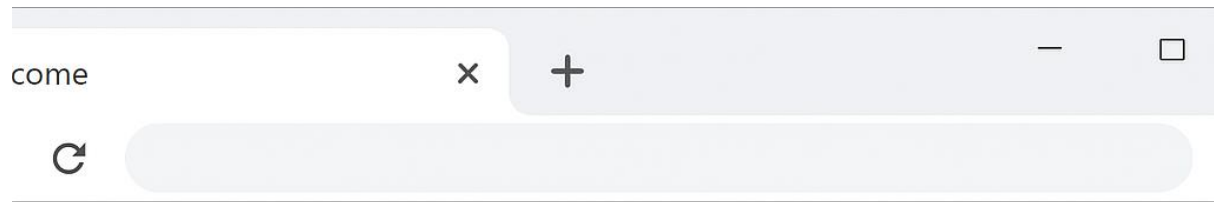
HTML CODE:

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Welcome</title>
</head>
<body>
    <h2>Welcome to the Hello World Servlet Application</h2>
    <p>Click the button below to see the "Hello, World!" message.</p>

    <form action="hello" method="get">
        <button type="submit">Go to Servlet</button>
    </form>
</body>
</html>
```

Output:

Welcome to the Hello World Servlet Application

Click the button below to see the 'Hello, World!' message

Go to Servlet

Result:

Thus the required web page has been successfully implemented using HTML and CSS.