

EXP.NO: 3	Write a Servlet program that prints "Hello, World!" when accessed through a browser.
DATE : 10/2/26	

AIM:

To write a basic Servlet program that demonstrates the use of Java Servlets by printing "Hello, World!" when accessed through a browser.

ALGORITHM:

1. Input:

- The user makes an HTTP request (usually by entering a URL) through a browser.

2. Servlet Program Flow:

1. Create a Servlet Class:

- Define a Java class that extends the `HttpServlet` class.
- Override the `doGet()` method, which handles HTTP GET requests from the client (browser).

2. Handle HTTP Request:

- In the `doGet()` method:
 - Get the **PrintWriter** object to write the response to the browser.
 - Set the response content type to **text/html**.
 - Write the **"Hello, World!"** message to the response.

3. Compile the Servlet Class:

- Compile the Java Servlet file using the `javac` command to generate a `.class` file.

4. Deploy the Servlet:

- Place the compiled servlet class file in the appropriate directory of the web application (typically in the `/WEB-INF/classes` folder).
- Configure the servlet in the `web.xml` file of the web application or use annotations.

5. Access the Servlet via Browser:

- Start the **Apache Tomcat** or another servlet container.
- Access the servlet by entering the appropriate URL (e.g., `http://localhost:8080/your-webapp/hello`).

PROGRAM :

```

<!DOCTYPE html>
<html>
<head>
  <title>Experiment 3</title>

  <style>
    body {
      height: 100vh;
      margin: 0;
      display: flex;
      justify-content: center;
      align-items: center;
      background: linear-gradient(135deg,#ff99cc,#9900cc);
      font-family: Arial, sans-serif;
    }

    .container {
      text-align: center;
      background: white;
      padding: 40px 60px;
      border-radius: 12px;
      box-shadow: 0 10px 25px rgba(0,0,0,0.2);
    }

    button {
      padding: 12px 30px;
      font-size: 16px;
      border: none;
      border-radius: 25px;
      cursor: pointer;
      color: white;
      background: linear-gradient(to right, #ff512f, #dd2476);
      transition: transform 0.2s, box-shadow 0.2s;
    }

    button:hover {
      transform: scale(1.05);
      box-shadow: 0 8px 15px rgba(0,0,0,0.3);
    }

    #output {
      margin-top: 20px;
      font-size: 20px;
      font-weight: bold;
      color: #333;
    }
  </style>

```

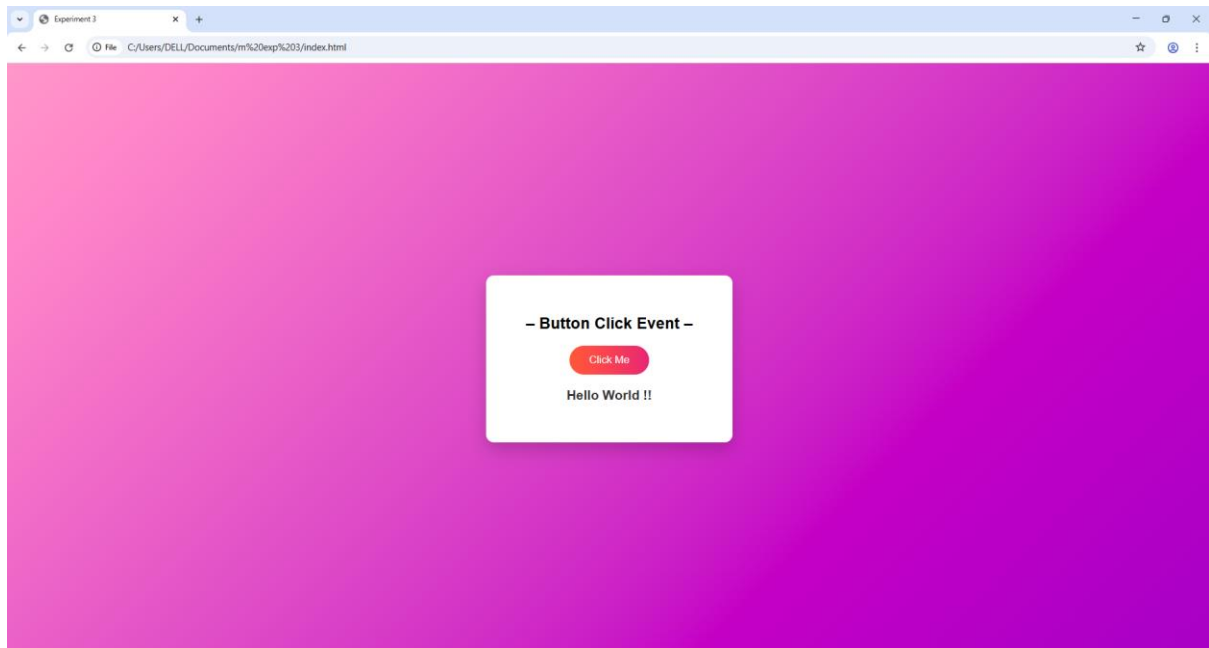
```
<script>
  function showMessage() {
    document.getElementById("output").innerHTML = "Hello World !!";
  }
</script>
</head>

<body>

  <div class="container">
    <h2> - Button Click Event - </h2>
    <button onclick="showMessage()">Click Me</button>
    <p id="output"></p>
  </div>

</body>
</html>
```

Output:



RESULT:

The browser will display the message "Hello, World!" returned by the Servlet.
an email.