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| 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>
```

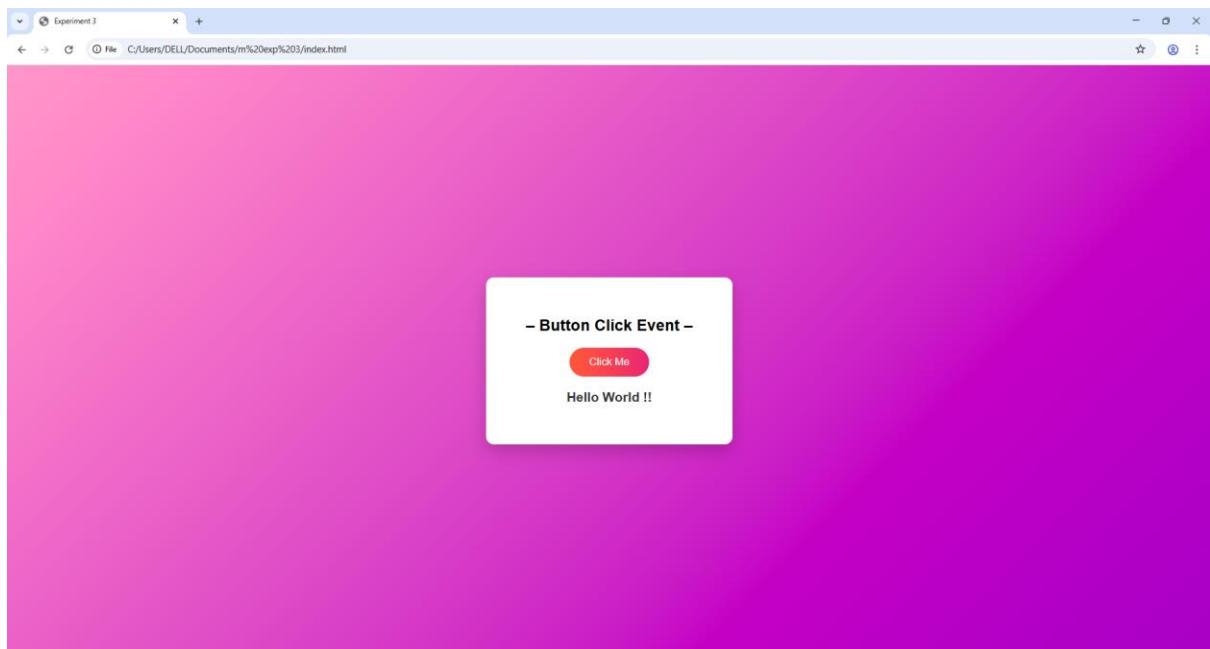
```
<script>
    function showMessage() {
        document.getElementById("output").innerHTML = "Hello World !!";
    }
</script>
</head>

<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.