# **EXPERIMENT – 3 JAVA SERVLET**

WRITE A SERVLET PROGRAM THAT PRINTS HELLO WORLD WHEN ACCESSED THROUGH THE BROWSER

### AIM:

TO WRITE A SERVLET PROGRAM THAT PRINTS HELLO WORLD WHEN ACCESSED THROUGH THE BROWSER

#### **ALGORITHM**:

### **Step 1: Create a Dynamic Web Project**

- 1. Open Eclipse IDE or any preferred IDE.
- 2. Go to File > New > Dynamic Web Project.
- 3. Name the project (e.g., HelloWorldServlet).
- 4. Choose Apache Tomcat as the runtime server.
- 5. Click Finish.

### **Step 2: Create a Servlet Class**

- 1. Right-click on the src folder.
- 2. Choose New > Servlet.
- 3. Name the class HelloWorld.
- 4. Make sure the class extends HttpServlet.
- 5. Add the @WebServlet("/HelloWorld") annotation to map the URL.

### **Step 3: Write Servlet Code**

- 1. Inside the doGet() method, set the content type to text/html.
- 2. Use PrintWriter to print "Hello, World!" in HTML format.
- 3. Handle exceptions using throws ServletException, IOException.

### Step 4: Fix Import Statements and Build

- Correct import packages (jakarta.servlet.\* for Jakarta EE or javax.servlet.\* for older versions).
- 2. Save and build the project.

### **Step 5: Deploy to Apache Tomcat**

- 1. Add the project to the Tomcat server from the Servers tab.
- 2. Start the Tomcat server.
- 3. Ensure the application is published successfully.

### Step 6: Access the Servlet in a Browser

- 1. Open a browser.
- 2. Go to: http://localhost:8080/YourProjectName/HelloWorld
- 3. You should see: Hello, World!

#### **Step 7: Troubleshoot if 404 Error Occurs**

- 1. Check if the URL pattern is correct.
- 2. Confirm the project is deployed to the server.
- 3. Clean and rebuild the project if needed.
- 4. Make sure the server is running.

#### CODE:

```
1.HelloWorld.java
import jakarta.servlet.ServletException;
import jakarta.servlet.annotation.WebServlet;
import jakarta.servlet.http.HttpServlet;
import jakarta.servlet.http.HttpServletRequest;
import jakarta.servlet.http.HttpServletResponse;
import java.io.IOException;
import java.io.PrintWriter;
@WebServlet("/HelloWorld")
public class HelloWorld extends HttpServlet {
```

private static final long serialVersionUID = 1L;

protected void doGet(HttpServletRequest request,

HttpServletResponse response) **throws** ServletException, IOException {

```
response.setContentType("text/html");
PrintWriter out=response.getWriter();
out.println("<h1>Hello,World!</h1>");
}
```

## **OUTPUT**:

Hello, World!

**RESULT:** Thus the servlet program was successfully executed.