

EXP 3: SERVLET PROGRAM 1

Write a Servlet program that prints “Hello, World!” when accessed through a browser.

AIM:

To develop a Java Servlet that responds with "Hello, World!" when accessed through a web browser.

ALGORITHM:

1. Start by importing the necessary Servlet classes from the javax.servlet and javax.servlet.http packages.
2. Create a class that extends HttpServlet.
3. Override the doGet() method to handle HTTP GET requests.
4. Use the PrintWriter object from the response to send the output back to the client.
5. Write "Hello, World!" using the PrintWriter.
6. Compile the servlet and deploy it on a servlet container like Apache Tomcat.
7. Access the servlet via a browser using the appropriate URL.

SOURCE CODE:

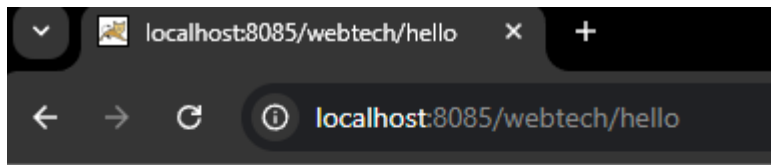
HelloWorldServlet.java

```
src > J HelloWorldServlet.java > ...
1  import java.io.IOException;
2  import java.io.PrintWriter;
3  import jakarta.servlet.ServletException;
4  import jakarta.servlet.http.HttpServlet;
5  import jakarta.servlet.http.HttpServletRequest;
6  import jakarta.servlet.http.HttpServletResponse;
7
8  public class HelloWorldServlet extends HttpServlet {
9      private static final long serialVersionUID = 1L;
10
11     protected void doGet(HttpServletRequest request, HttpServletResponse response)
12         throws ServletException, IOException {
13         response.setContentType("text/html");
14         PrintWriter out = response.getWriter();
15         out.println(x:"<h1>Hello, World!</h1>");
16     }
17 }
18
```

Web.xml

```
J HelloWorldServlet.java 9  {} settings.json  servlet-api.jar  web.xml X
WEB-INF > web.xml
1  <web-app xmlns="https://jakarta.ee/xml/ns/jakartaee"
2      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
3      xsi:schemaLocation="https://jakarta.ee/xml/ns/jakartaee
4          https://jakarta.ee/xml/ns/jakartaee/web-app_6_0.xsd"
5      version="6.0">
6
7      <servlet>
8          <servlet-name>HelloWorld</servlet-name>
9          <servlet-class>HelloWorldServlet</servlet-class>
10     </servlet>
11
12     <servlet-mapping>
13         <servlet-name>HelloWorld</servlet-name>
14         <url-pattern>/hello</url-pattern>
15     </servlet-mapping>
16 </web-app>
17
```

OUTPUT:



Hello, World!

RESULT:

Thus, the program was executed successfully.