# Exp 4: Java Servlets

#### AIM:

To create a web Servlets to show a message "HI User this is Servlet"

#### PROCEDURE:

# **Step 1: Set Up a Dynamic Web Project**

- Use **Eclipse IDE** or any Java EE-supported IDE.
- Create a **Dynamic Web Project**.
- Name it something like HelloServletDemo.

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

- Right-click on src > New > Servlet.
- Name the class HelloServlet.
- Specify the URL mapping, e.g., /hello.

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

- Inside the servlet class, override the doGet() method.
- Use response.getWriter() to print the message.

### **Step 4: Run the Servlet**

- Right-click the project > Run As > Run on Server.
- Open a browser and go to: http://localhost:8080/HelloServletDemo/hello

#### PROGRAM:

### HelloServlet.java

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

// URL pattern: http://localhost:8080/HelloServletDemo/hello
@WebServlet("/hello")
public class HelloServlet extends HttpServlet {
    private static final long serialVersionUID = 1L;
```

#### Web.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns="http://java.sun.com/xml/ns/javaee"</pre>
         xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
         xsi:schemaLocation="http://java.sun.com/xml/ns/javaee
         http://java.sun.com/xml/ns/javaee/web-app_3_0.xsd"
         version="3.0">
    <display-name>HelloServletDemo</display-name>
    <!-- Optional if using @WebServlet -->
    <servlet>
        <servlet-name>HelloServlet</servlet-name>
        <servlet-class>HelloServlet</servlet-class>
    </servlet>
    <servlet-mapping>
        <servlet-name>HelloServlet</servlet-name>
        <url-pattern>/hello</url-pattern>
    </servlet-mapping>
</web-app>
```

### Pom.xml

```
<modelVersion>4.0.0</modelVersion>
   <groupId>com.example
   <artifactId>HelloServletDemo</artifactId>
   <version>1.0-SNAPSHOT</version>
   <packaging>war</packaging>
   <name>HelloServletDemo</name>
   cproperties>
       <maven.compiler.source>1.8</maven.compiler.source>
       <maven.compiler.target>1.8</maven.compiler.target>
       project.build.sourceEncoding>UTF-8/project.build.sourceEncoding>
   </properties>
   <dependencies>
       <dependency>
           <groupId>javax.servlet
           <artifactId>javax.servlet-api</artifactId>
           <version>4.0.1
           <scope>provided</scope>
       </dependency>
   </dependencies>
   <build>
       <finalName>HelloServletDemo</finalName>
       <plugins>
           <!-- Compiler Plugin -->
           <plugin>
               <groupId>org.apache.maven.plugins
               <artifactId>maven-compiler-plugin</artifactId>
           </plugin>
           <!-- WAR Plugin -->
           <plugin>
               <groupId>org.apache.maven.plugins
               <artifactId>maven-war-plugin</artifactId>
               <version>3.3.2
               <configuration>
                   <failOnMissingWebXml>false</failOnMissingWebXml>
               </configuration>
           </plugin>
       </plugins>
   </build>
</project>
```

# OUTPUT:



Hi user This is Servlet

# **RESULT:**

Thus the java servlet to show a text was executed successfully.