**Logging Error Messages and Warning Levels using SLF4J**

**Project Structure**

Slf4jLoggingDemo/

├── pom.xml

└── src/

└── main/

└── java/

└── org/

└── example/

└── LoggingExample.java

**Add SLF4J and Logback to pom.xml**

<project xmlns="http://maven.apache.org/POM/4.0.0"

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

xsi:schemaLocation="http://maven.apache.org/POM/4.0.0

http://maven.apache.org/xsd/maven-4.0.0.xsd">

<modelVersion>4.0.0</modelVersion>

<groupId>org.example</groupId>

<artifactId>Slf4jLoggingDemo</artifactId>

<version>1.0-SNAPSHOT</version>

<properties>

<maven.compiler.source>1.8</maven.compiler.source>

<maven.compiler.target>1.8</maven.compiler.target>

</properties>

<dependencies>

<!-- SLF4J API -->

<dependency>

<groupId>org.slf4j</groupId>

<artifactId>slf4j-api</artifactId>

<version>1.7.30</version>

</dependency>

<!-- Logback Classic (SLF4J Implementation) -->

<dependency>

<groupId>ch.qos.logback</groupId>

<artifactId>logback-classic</artifactId>

<version>1.2.3</version>

</dependency>

</dependencies>

<build>

<plugins>

<!-- To run the main class from terminal -->

<plugin>

<groupId>org.codehaus.mojo</groupId>

<artifactId>exec-maven-plugin</artifactId>

<version>3.0.0</version>

<configuration>

<mainClass>org.example.LoggingExample</mainClass>

</configuration>

</plugin>

</plugins>

</build>

</project>

**Java Class for Logging**

**🔹 LoggingExample.java**

package org.example;

import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

public class LoggingExample {

private static final Logger logger = LoggerFactory.getLogger(LoggingExample.class);

public static void main(String[] args) {

logger.error("This is an error message");

logger.warn("This is a warning message");

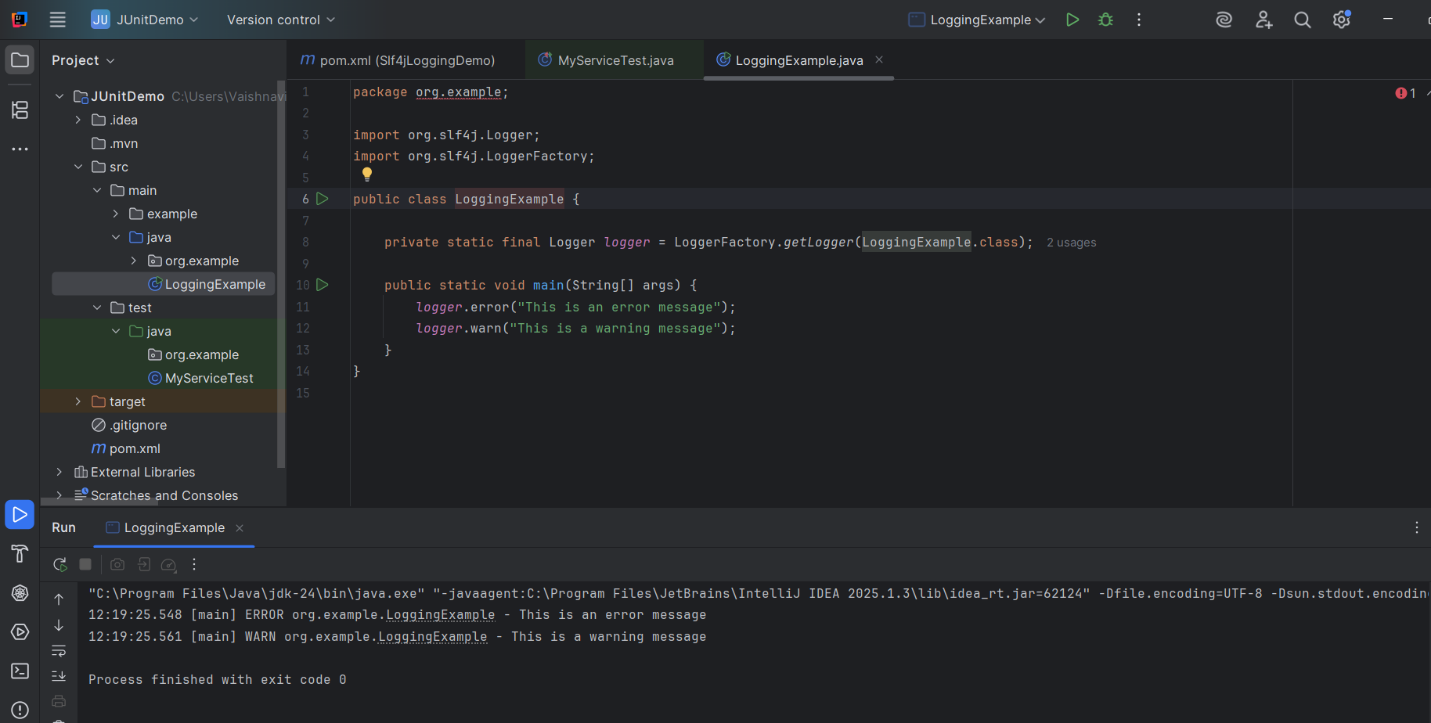
}

}

**Run the Application**

Right-click LoggingExample.java

**OUTPUT**

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