**Exercise 1: Logging Error Messages and Warning Levels Task**

Task: Write a Java application that demonstrates logging error messages and warning levels using SLF4J.

**Step-by-Step Solution:** 1. Add SLF4J and Logback dependencies to your `pom.xml` file:

<dependency>

<groupId>org.slf4j</groupId>

<artifactId>slf4j-api</artifactId>

<version>1.7.30</version>

</dependency>

<!-- Logback (SLF4J Binding) -->

<dependency>

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

<artifactId>logback-classic</artifactId>

<version>1.2.3</version>

</dependency>

**Create a Java class that uses SLF4J for logging**:

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");

}

}

TestErrorMessages.java

package com.logging;

import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

public class TestErrorMessages {

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

public static void main(String[] args) {

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

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

}

}

**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

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

<modelVersion>4.0.0</modelVersion>

<groupId>Log</groupId>

<artifactId>SLF4J</artifactId>

<version>0.0.1-SNAPSHOT</version>

<dependencies>

<!-- SLF4J API -->

<dependency>

<groupId>org.slf4j</groupId>

<artifactId>slf4j-api</artifactId>

<version>1.7.30</version>

</dependency>

<!-- Logback (SLF4J Binding) -->

<dependency>

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

<artifactId>logback-classic</artifactId>

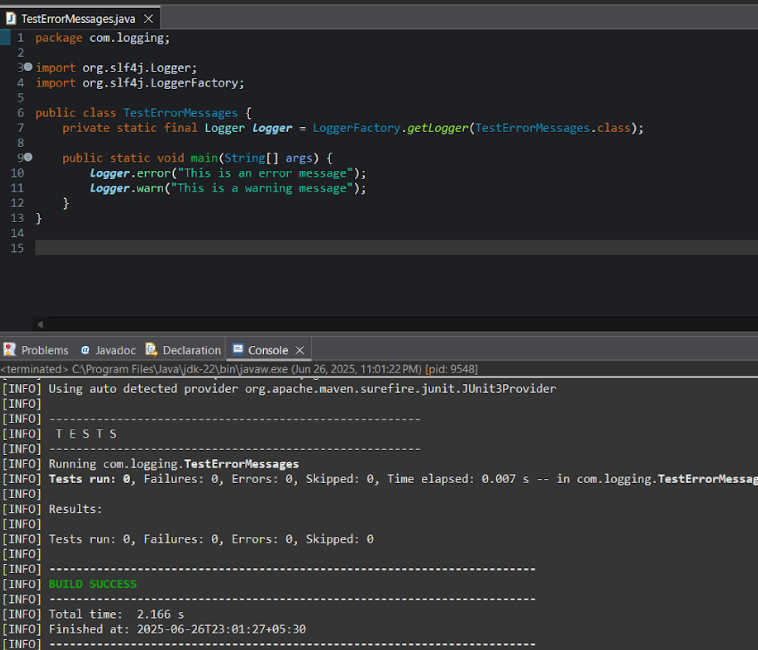
<version>1.2.3</version>

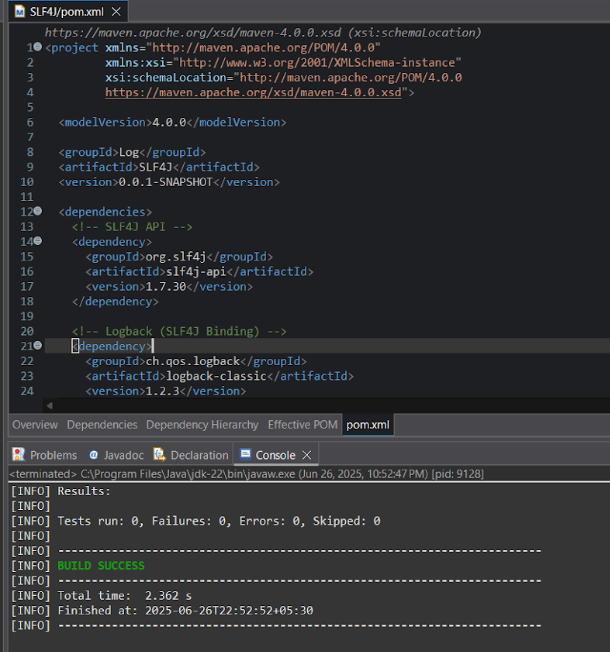
</dependency>

</dependencies>

</project>

**OUTPUT:**



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