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

**Step 1:** Create a New Maven Project in Eclipse

1. Open Eclipse.
2. Go to File > New > Project...
3. Choose Maven Project → Click Next.
4. Select "Create a simple project", then click Next.
5. Fill in:
   * Group Id: com.example
   * Artifact Id: LoggingDemo
6. Click Finish.

**Step 2:** Add SLF4J and Logback Dependencies

1.Open pom.xml and add these dependencies inside <dependencies>:**pom.xml**

<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>

**Step 3:** Create the Java Class That Logs Messages

**src/main/java/com/example/LoggingExample.java**

**LoggingExample.java:**

package com.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) {

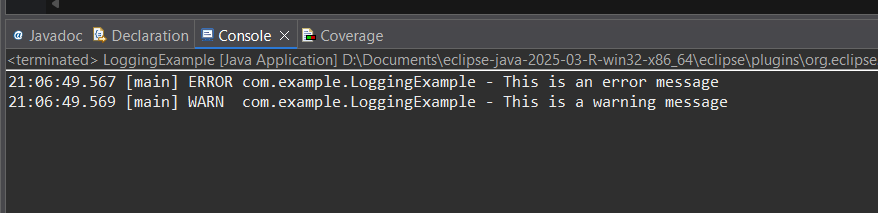
logger.error("This is an error message");

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

}

}

**OUTPUT:**

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