**WEEK – 02**

SL4J Logging exercises

**Superset ID: 6262264**

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

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

**SOLUTION:**

**1.Adding SLF4J and Logback dependencies in 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>com.example</groupId>

<artifactId>LoggingDemo</artifactId>

<version>1.0-SNAPSHOT</version>

<dependencies>

<dependency>

<groupId>org.slf4j</groupId>

<artifactId>slf4j-api</artifactId>

<version>1.7.30</version>

</dependency>

<dependency>

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

<artifactId>logback-classic</artifactId>

<version>1.2.3</version>

</dependency>

</dependencies>

<build>

<plugins>

<plugin>

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

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

<version>3.0.0</version>

</plugin>

</plugins>

</build>

</project>

**2. Create a Java class 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");

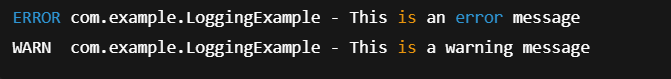
}

}

**EXPLANATION:**

This Java application demonstrates how to use SLF4J with Logback to log messages at different severity levels. The program initializes a logger and prints an error and a warning message to the console, illustrating how logging frameworks categorize log statements.

**OUTPUT :**

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