**Week-2:**

**Logging using SLF4J**

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

LoggingDemo

**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>com.example</groupId>

<artifactId>LoggingDemo</artifactId>

<version>0.0.1-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>

</project>

**in src/main/java,** create com.example.log

**LoggingExample.java** - package com.example.log;

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.info("This is an info message");

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

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

    }

}

package-info.java - package com.example.log;

in src/main/resources, create logback.xml

<configuration>

<appender name="FILE" class="ch.qos.logback.core.FileAppender">

<file>logs/app.log</file>

<append>true</append>

<encoder>

<pattern>%d{yyyy-MM-dd HH:mm:ss} %-5level %logger{36} - %msg%n</pattern>

</encoder>

</appender>

<appender name="STDOUT" class="ch.qos.logback.core.ConsoleAppender">

<encoder>

<pattern>%d{HH:mm:ss.SSS} [%thread] %-5level %logger{36} - %msg%n</pattern>

</encoder>

</appender>

<root level="debug">

<appender-ref ref="FILE" />

<appender-ref ref="STDOUT" />

</root>

</configuration>

**Right-click on LoggingExample.java**

**Click Run As → Java Application**

**Output :**

