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

* Create Maven Project.
* In Eclipse click File > New > Maven Project.Check "Create a simple project (skip archetype)".
* Give Group ID as com.example and Artifact ID as LoggingExample and Click Finish.
* Add SLF4J and Logback Dependencies in pom.xml.
* Create Java Class to Log Messages in scr/main/java.
* Run the application by Right-clicking on LoggingExample.java > **Run As > Java Application.**

**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>LoggingExample</artifactId>

<version>1.0-SNAPSHOT</version>

<dependencies>

<!-- SLF4J API -->

<dependency>

<groupId>org.slf4j</groupId>

<artifactId>slf4j-api</artifactId>

<version>1.7.30</version>

</dependency>

<!-- Logback Implementation (required for actual logging) -->

<dependency>

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

<artifactId>logback-classic</artifactId>

<version>1.2.3</version>

</dependency>

</dependencies>

</project>

**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:**

