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

Pom.xml

<?xml version="1.0" encoding="UTF-8"?>

<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>org.saswata</groupId>

    <artifactId>Code</artifactId>

    <version>1.0-SNAPSHOT</version>

    <properties>

        <maven.compiler.source>19</maven.compiler.source>

        <maven.compiler.target>19</maven.compiler.target>

        <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>

    </properties>

    <dependencies>

        <!-- SLF4J API -->

        <dependency>

            <groupId>org.slf4j</groupId>

            <artifactId>slf4j-api</artifactId>

            <version>1.7.30</version>

        </dependency>

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

        <dependency>

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

            <artifactId>logback-classic</artifactId>

            <version>1.2.3</version>

        </dependency>

    </dependencies>

</project>

LoggingExample.java

package org.saswata;

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");

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

    }

}

Output:

