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

**Objective:**

Demonstrate logging of error and warning messages using the SLF4J API with Logback as the underlying implementation.

**Step 1: Add Dependencies to pom.xml**

<dependencies>

<!-- SLF4J API -->

<dependency>

<groupId>org.slf4j</groupId>

<artifactId>slf4j-api</artifactId>

<version>1.7.30</version>

</dependency>

<!-- Logback Implementation -->

<dependency>

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

<artifactId>logback-classic</artifactId>

<version>1.2.3</version>

</dependency>

</dependencies>

### ****Step 2: Create a Java Class for Logging****

Create a file named LoggingExample.java

import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

public class LoggingExample {

// Step 1: Create the logger instance

private static final Logger logger = LoggerFactory.getLogger(LoggingExample.class);

public static void main(String[] args) {

// Step 2: Log error and warning messages

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

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

}

}

**Expected Output on Console**

2025-06-26 10:30:12 ERROR LoggingExample - This is an error message

2025-06-26 10:30:12 WARN LoggingExample - This is a warning message