# Skill – TDD using JUnit5 and Mockito

# Logging using SLF4J

## Exercise 1: Logging Error Messages and Warning Levels

Purpose:  
The purpose of this exercise is to demonstrate how to log error messages and warning levels in a Java application using SLF4J with Logback.

### Understanding SLF4J and Logback:

SLF4J (Simple Logging Facade for Java) serves as a simple facade or abstraction for various logging frameworks. Logback is a reliable, generic, fast, and flexible logging framework intended as a successor to Log4j.

## Implementation:

## LoggingDemo/pom.xml(Code):

**<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>**

## LoggingExample.java:

**package** com.example.logging;

**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:

