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

**SLF4J stands for:**

Simple Logging Facade for Java

It is a common interface for various Java logging frameworks like:

- Log4j

- Logback

- java.util.logging (JUL)

- tinylog etc.

**Example**

import org.apache.log4j.Logger;

Logger logger = Logger.getLogger(MyClass.class);

Here, you are tightly coupled to Log4j. If someday you want to switch to Logback or any other, you have to rewrite all your code.

Instead

import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

Logger logger = LoggerFactory.getLogger(MyClass.class);

logger.info("Hello!");

Here, SLF4J acts as a middle layer, then at runtime, you plug in whichever logging backend you want.  
Hence, we can say that SLF4J is like a “Universal adapter”.

**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) {

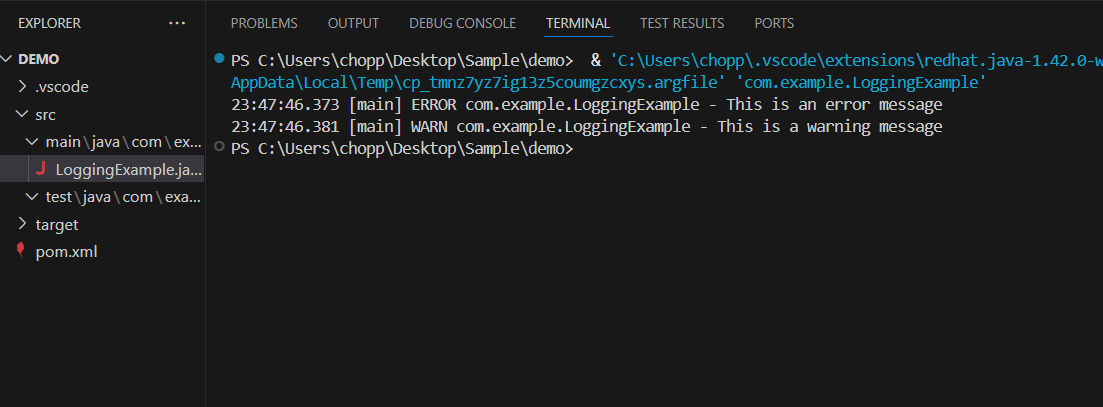
        logger.error("This is an error message");

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

    }

}

**Result using SLF4J Logging Framework**

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