

## Exercise 1: Logging Error Messages and Warning Levels Task

Write a Java application that demonstrates logging error messages and warning levels using SLF4J.

Step-by-Step Solution:

**Step 1:** Create a Maven Project.

**Step 2:** Add SLF4J and Logback Dependencies.

```
<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>
```

**Step 3:** Create 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");
  }
}
```

**Step 4:** Run program in vs code (Maven Project)

Out put:

```

PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS    SQL HISTORY    TASK MONITOR
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/commons/commons-exec/1.3/commons-exec-1.3.jar (54 kB at 296
kB/s)
09:08:01.934 [com.example.LoggingExample.main()] ERROR com.example.LoggingExample - This is an error message
09:08:01.936 [com.example.LoggingExample.main()] WARN com.example.LoggingExample - This is a warning message
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 3.730 s
[INFO] Finished at: 2025-06-29T09:08:01+05:30
[INFO] -----
PS C:\Users\Admin\OneDrive\Desktop\temp>

```