

## Exercise 1: Logging Error Messages and Warning Levels

Step1: added two dependencies inside pom.xml

```
<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>
```

Step2: added java class inside main :

```
package org.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) {
```

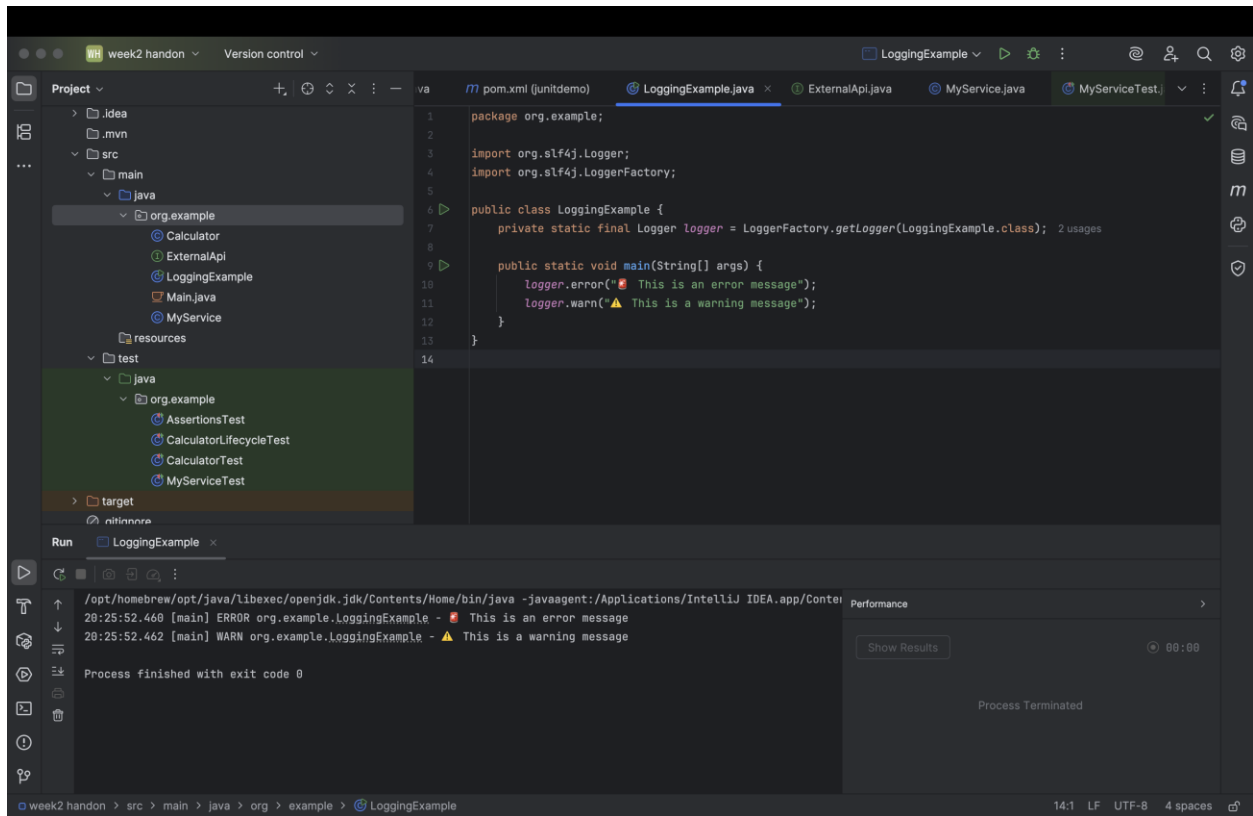
```
        logger.error(" This is an error message");
```

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

}

}
```

Output:



The screenshot shows the IntelliJ IDEA IDE interface. The top toolbar includes icons for running and debugging. The left sidebar displays the project structure, with the 'org.example' package expanded, showing classes like Calculator, ExternalApi, LoggingExample, Main.java, and MyService. The main editor window displays the code for 'LoggingExample.java', which includes package declarations, imports for SLF4J, and a main method that logs an error and a warning. The bottom panel shows the 'Run' output, indicating that the process finished with exit code 0 and displaying the logged messages: 'ERROR org.example.LoggingExample - This is an error message' and 'WARN org.example.LoggingExample - This is a warning message'. The status bar at the bottom indicates the file is 'LoggingExample' in the 'org.example' package, using UTF-8 encoding and 4 spaces for indentation.

```
package org.example;

import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

public class LoggingExample {
    private static final Logger logger = LoggerFactory.getLogger(LoggingExample.class); 2 usages

    public static void main(String[] args) {
        logger.error("🔴 This is an error message");
        logger.warn("🟡 This is a warning message");
    }
}
```

Run LoggingExample

/opt/homebrew/opt/java/libexec/openjdk.jdk/Contents/Home/bin/java -javaagent:/Applications/IntelliJ IDEA.app/Contents/Performance

20:25:52.460 [main] ERROR org.example.LoggingExample - 🔴 This is an error message

20:25:52.462 [main] WARN org.example.LoggingExample - 🟡 This is a warning message

Process finished with exit code 0

Show Results 00:00

Process Terminated

week2 handon > src > main > java > org > example > LoggingExample 14:1 LF UTF-8 4 spaces