

Week 2 – SLF4J_Logging_Mandatory_HandsOn

Skill: SLF4J Logging

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Type: Mandatory Hands-On

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:

1. Add SLF4J and Logback dependencies to your `pom.xml` file:

```
<?xml version="1.0" encoding="UTF-8"?>
<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
http://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>

  <groupId>com.example</groupId>
  <artifactId>SLF4J_Logging</artifactId>
  <version>1.0-SNAPSHOT</version>

  <properties>
    <maven.compiler.source>21</maven.compiler.source>
    <maven.compiler.target>21</maven.compiler.target>
    <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
  </properties>

  <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>
```

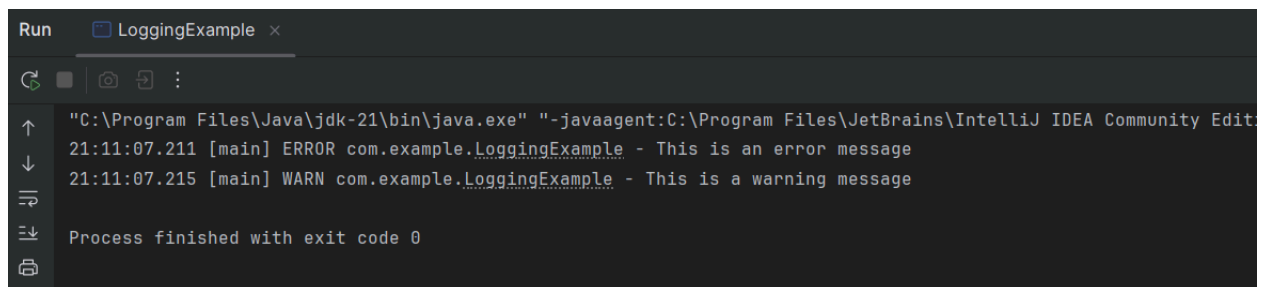
2. Create a Java class that uses SLF4J for logging:

```
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");  
    }  
}
```

Output:-



The screenshot shows the 'Run' window of an IDE with the title 'LoggingExample'. The output console displays the following text:

```
"C:\Program Files\Java\jdk-21\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edit  
21:11:07.211 [main] ERROR com.example.LoggingExample - This is an error message  
21:11:07.215 [main] WARN com.example.LoggingExample - This is a warning message  
  
Process finished with exit code 0
```