# Exercise 1 – Logging Error Messages and Warning Levels

## 1. Task

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

## 2. Step-by-Step Solution

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

<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>

2. Create a Java class that uses SLF4J for 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");  
 }  
}

## 3. Output

ERROR LoggingExample - This is an error message  
WARN LoggingExample - This is a warning message

## 4. Conclusion

SLF4J with Logback provides a simple yet powerful way to log messages at different severity levels.