

# SLF4J logging framework

## 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:

```
<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>
```

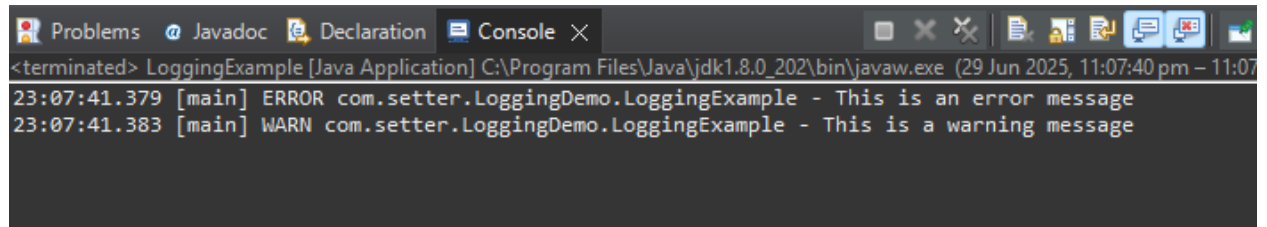
#### 2. Create a Java class that uses SLF4J for logging:

```
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");
    }
}
```

## Output:



The screenshot shows an IDE's console window with the following content:

```
<terminated> LoggingExample [Java Application] C:\Program Files\Java\jdk1.8.0_202\bin\javaw.exe (29 Jun 2025, 11:07:40 pm - 11:07:41.379)
23:07:41.379 [main] ERROR com.setter.LoggingDemo.LoggingExample - This is an error message
23:07:41.383 [main] WARN com.setter.LoggingDemo.LoggingExample - This is a warning message
```