SLF4J_Logging_Exercises

☑ Exercise 1: Logging Error and Warning Levels using SLF4J

Step 1: Add SLF4J & Logback Dependencies

Add this inside the <dependencies> section of your pom.xml:

```xml
<!-- SLF4J API -->
<dependency>
    <groupId>org.slf4j</groupId>
    <artifactId>slf4j-api</artifactId>
    <version>1.7.30</version>
</dependency>

<!-- Logback (SLF4J implementation) -->
<dependency>
    <groupId>ch.qos.logback</groupId>
    <artifactId>logback-classic</artifactId>
    <version>1.2.3</version>
</dependency>
</dependencies>
```

Step 2: Create Java Class for Logging

➤ src/main/java/com/example/LoggingExample.java

```java
1  package com.example;
2
3  import org.slf4j.Logger;
4  import org.slf4j.LoggerFactory;
5
6  public class LoggingExample {
7
8      // Create logger
9      private static final Logger logger = LoggerFactory.getLogger(LoggingExample.class);
10
11     public static void main(String[] args) {
12         System.out.println("✎ Application started...");
13
14         logger.error("✗ This is an ERROR message");
15         logger.warn("⚠ This is a WARNING message");
16
17         System.out.println("☑ Logging completed. Check the console for log output.");
18     }
19 }
20
```

Step 3: Run the Application

Run this file using:

- 🟩 Eclipse: Right-click LoggingExample.java → Run

Expected Console Output

```
Console ×
<terminated> LoggingExample [Java Application] C:\Program Files\Java\jdk-21\bin\javaw.exe  (29-Jun-2025, 8:54:42 pm – 8:54:44 pm elapsed: 0:00:01.715) [pid: 26828]
✎ Application started...
20:54:44.657 [main] ERROR com.example.LoggingExample - ✗ This is an ERROR message
20:54:44.660 [main] WARN com.example.LoggingExample - ⚠  This is a WARNING message
☑ Logging completed. Check the console for log output.
```

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