

WEEK 2

(Implemented in Eclipse)

1)SL4J Logging Exercises

Exercise 1:Logging error messages and Warning level:

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

pom.xml

```
<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
https://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <groupId>com.example</groupId>
  <artifactId>LoggingDemo</artifactId>
  <version>0.0.1-SNAPSHOT</version>
  <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>
</project>
```

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

LoggingExample.java

```
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:

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Package Explorer X JUnit

LoggingDemo/pom.xml LoggingExample.java X

```
1 import org.slf4j.Logger;
2 import org.slf4j.LoggerFactory;
3
4 public class LoggingExample {
5
6     private static final Logger logger = LoggerFactory.getLogger(LoggingExample.class);
7
8     public static void main(String[] args) {
9         logger.error("This is an error message");
10        logger.warn("This is a warning message");
11    }
12
13 }
14
```

Task List X

Find All Activate...

Outline X

LoggingExample

- logger : Logger
- main(String[]) : void

Javadoc Declaration Console X

<terminated> LoggingExample [Java Application] C:\Users\hp\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_21.0.7.v20250502-0916\jre\bin\javaw.exe (Jun 29, 20 15:06:23.063 [main] ERROR LoggingExample - This is an error message 15:06:23.068 [main] WARN LoggingExample - This is a warning message

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