

WEEK 2 – ASSIGNMENT

Superset ID: 6390124

SL4J Logging Exercises:-

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");
    }
}
```

LoggingExample.java

```
package com.example;

import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

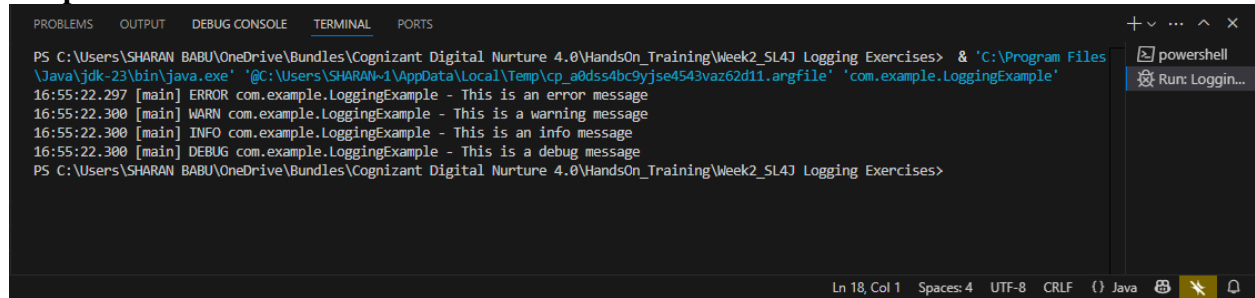
public class LoggingExample {

    // Creating a logger for this class
    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");
        logger.info("This is an info message");
    }
}
```

```
        logger.debug("This is a debug message");
    }
}
```

Output:



```
PS C:\Users\SHARAN BABU\OneDrive\Bundles\Cognizant Digital Nurture 4.0\HandsOn_Training\Week2_SL4\ Logging Exercises> & 'C:\Program Files
\Java\jdk-23\bin\java.exe' '@C:\Users\SHARAN-1\AppData\Local\Temp\cp_a8dss4bc9yjse4543vaz62d11.argfile' 'com.example.LoggingExample'
16:55:22.297 [main] ERROR com.example.LoggingExample - This is an error message
16:55:22.300 [main] WARN com.example.LoggingExample - This is a warning message
16:55:22.300 [main] INFO com.example.LoggingExample - This is an info message
16:55:22.300 [main] DEBUG com.example.LoggingExample - This is a debug message
PS C:\Users\SHARAN BABU\OneDrive\Bundles\Cognizant Digital Nurture 4.0\HandsOn_Training\Week2_SL4\ Logging Exercises>
```