**6. SL4J Logging exercises**

**Exercise 1: Logging Error Messages and Warning Levels**

**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 http://maven.apache.org/maven-v4\_0\_0.xsd">

  <modelVersion>4.0.0</modelVersion>

  <groupId>com.example</groupId>

  <artifactId>Exercise1\_LoggingWithSLF4J</artifactId>

  <version>1.0-SNAPSHOT</version>

  <properties>

    <maven.compiler.source>17</maven.compiler.source>

    <maven.compiler.target>17</maven.compiler.target>

  </properties>

  <dependencies>

    <!-- SLF4J API -->

    <dependency>

      <groupId>org.slf4j</groupId>

      <artifactId>slf4j-api</artifactId>

      <version>1.7.30</version>

    </dependency>

    <!-- Logback implementation for SLF4J -->

    <dependency>

      <groupId>ch.qos.logback</groupId>

      <artifactId>logback-classic</artifactId>

      <version>1.2.3</version>

    </dependency>

  </dependencies>

  <build>

  <plugins>

    <plugin>

      <groupId>org.codehaus.mojo</groupId>

      <artifactId>exec-maven-plugin</artifactId>

      <version>3.1.0</version>

      <configuration>

        <mainClass>com.example.LoggingExample</mainClass>

      </configuration>

    </plugin>

  </plugins>

</build>

</project>

**LoggingExample.java**

package com.example;

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) {

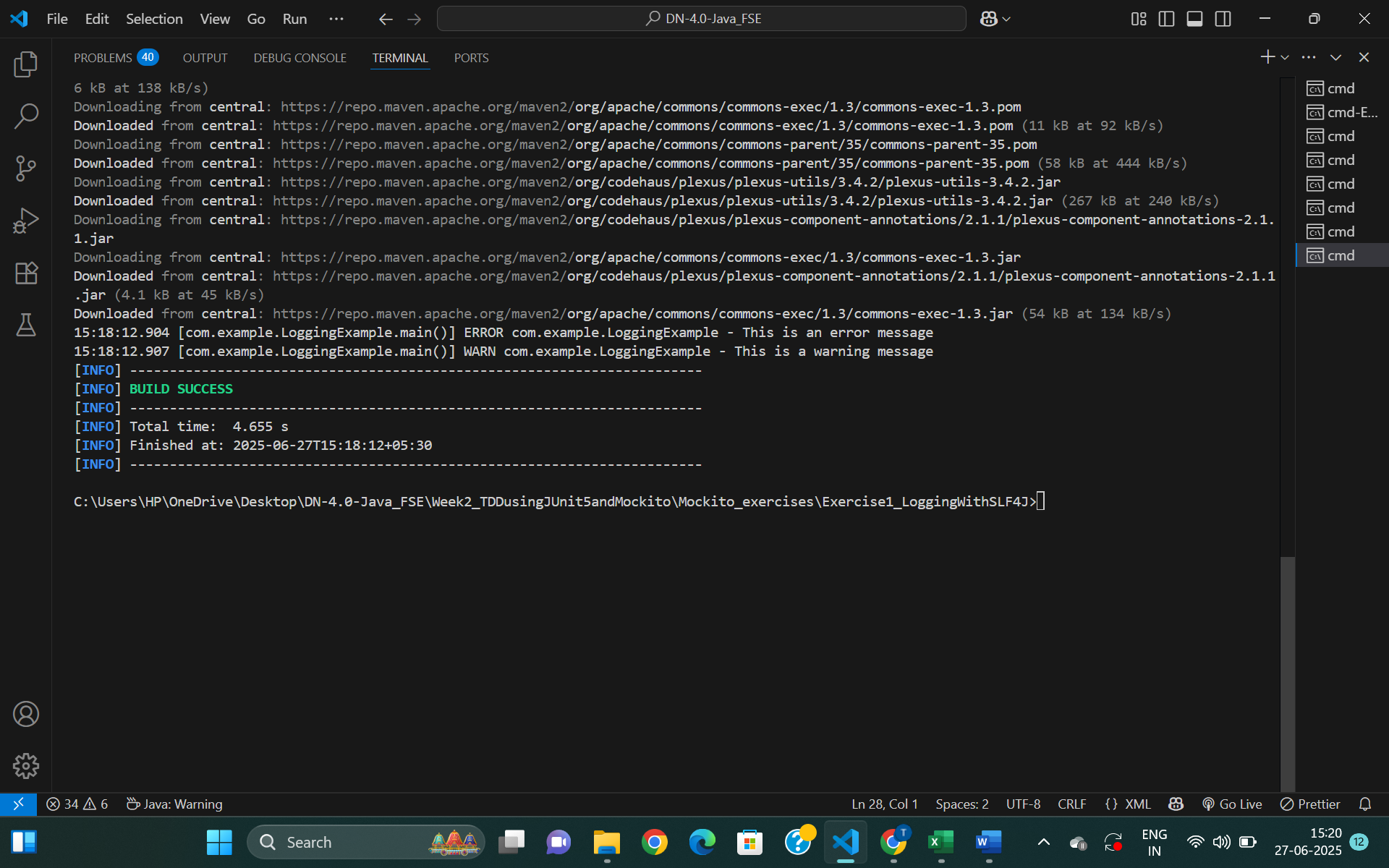
        logger.error("This is an error message");

        logger.warn("This is a warning message");

    }

}

**Output**

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