**Deep Skilling - Week 2 Mandatory Hands-on Exercises**

**Skill : SLF4J Logging Framework**

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

**Code:**

**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>LoggerDemo</groupId>**

**<artifactId>LoggerDemo</artifactId>**

**<version>0.0.1-SNAPSHOT</version>**

**<build>**

**<sourceDirectory>src</sourceDirectory>**

**<plugins>**

**<plugin>**

**<artifactId>maven-compiler-plugin</artifactId>**

**<version>3.8.1</version>**

**<configuration>**

**<release>21</release>**

**</configuration>**

**</plugin>**

**</plugins>**

**<pluginManagement>**

**<plugins>**

**<!--This plugin's configuration is used to store Eclipse m2e settings only. It has no influence on the Maven build itself.-->**

**<plugin>**

**<groupId>org.eclipse.m2e</groupId>**

**<artifactId>lifecycle-mapping</artifactId>**

**<version>1.0.0</version>**

**<configuration>**

**<lifecycleMappingMetadata>**

**<pluginExecutions>**

**<pluginExecution>**

**<pluginExecutionFilter>**

**<groupId>**

**org.apache.maven.plugins**

**</groupId>**

**<artifactId>**

**maven-compiler-plugin**

**</artifactId>**

**<versionRange>**

**[3.8.1,)**

**</versionRange>**

**<goals>**

**<goal>testCompile</goal>**

**</goals>**

**</pluginExecutionFilter>**

**<action>**

**<ignore></ignore>**

**</action>**

**</pluginExecution>**

**</pluginExecutions>**

**</lifecycleMappingMetadata>**

**</configuration>**

**</plugin>**

**</plugins>**

**</pluginManagement>**

**</build>**

**<dependencies>**

**<dependency>**

**<groupId>org.slf4j</groupId>**

**<artifactId>slf4j-api</artifactId>**

**<version>2.0.9</version>**

**</dependency>**

**<dependency>**

**<groupId>org.slf4j</groupId>**

**<artifactId>slf4j-simple</artifactId>**

**<version>2.0.9</version>**

**</dependency>**

**</dependencies>**

**</project>**

**LoggerDemo.java**

**package LoggingExample;**

**import org.slf4j.Logger;**

**import org.slf4j.LoggerFactory;**

**public class LoggingDemo {**

**private static final Logger *logger* = LoggerFactory.*getLogger*(LoggingDemo.class);**

**public static void main(String[] args) {**

**// Info level**

***logger*.info("Application started...");**

**// Warning level**

***logger*.warn("Low disk space warning");**

**// Error level**

**try {**

**int result = 10 / 0;**

**} catch (ArithmeticException e) {**

***logger*.error("An error occurred: Division by zero", e);**

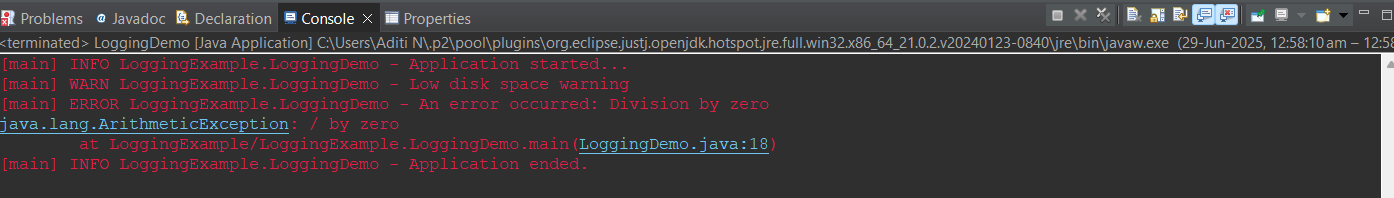
**}**

***logger*.info("Application ended.");**

**}**

**}**

**Output:**

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