Name:- Vidya C S Track: JAVA FSE

Skill: Logging using SLF4J Hands-On Exercises

Exercise 1: Logging Error Messages and Warning Levels Task: Write a Java application that demonstrates logging error messages and warning levels using SLF4J.

Step1: Add SLF4J and Logback dependencies to your 'pom.xml' file

```
📄 脑 *SLF4JDemo/pom.xml 🗡
                                                  https://maven.apache.org/xsd/maven-4.0.0.xsd (xsi:schemaLocation)
§ 00
                                to the control of th
                                                       <modelVersion>4.0.0</modelVersion>
                                                            <groupId>com.example</groupId>
                                                        <artifactId>SLF4JDemo</artifactId>
                                                       <version>0.0.1-SNAPSHOT</version>
<!-- SLF4J API -->

√ 7⊖ <dependency >

                                         10
                                     11 </dependency>
                                     13 <!-- Logback implementation (SLF4J backend) -->
                                     14⊖ <dependency>
                                     15 <groupId>ch.qos.logback</groupId>
                                                         <artifactId>logback-classic</artifactId>
<version>1.2.3</version>
                                     16
                                     17
                                     18 </dependency>
                                      19
                                     20 </project>
```

Step2: Create a Java class that uses SLF4J for logging

```
File Edit Source Refactor Navigate Search Project Run Window Help
□ □ M SLF4JDemo/pom.xml D LoggingExample.java ×
Project Explorer × ♂ JUnit
                          E $ 7 | P 8
                                           1 package com.example;
∨ 🔛 SLF4JDemo
                                           3⊖ import org.slf4j.Logger;
  4 import org.slf4j.LoggerFactory;
    > # com.example
                                           6 public class LoggingExample {
  > 😕 src/main/resources
  > 🎩 src/test/java
                                                 // Create a logger for this class
  > 📂 src/test/resources
                                                 private static final Logger Logger = LoggerFactory.getLogger(LoggingExample.class);
  > NRE System Library [JavaSE-1.8]
                                         public static void main(String[] args) {
                                                     life state void main(string[] args) {
    logger.error("This is an error message");
    logger.warn("This is a warning message");
  > 🛋 Maven Dependencies
  > 🗁 src
  > 🗁 target
    a pom.xml
```

OUTPUT:-

