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

Task: Write a Java application that demonstrates logging error messages and warning levels

using SLF4J.

**Steps:**

1. Add SLF4J and Log back dependencies to your `pom.xml` file:

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

STEP 1 – ADDING DEPENDENCIES TO THE PROJECT

* Add SLF4J and Log back dependencies to pom.xml

Code:

|  |
| --- |
| <dependency>  <groupId>org.slf4j</groupId>  <artifactId>slf4j-api</artifactId>  <version>1.7.30</version>  </dependency>  <!-- Logback (SLF4J implementation) -->  <dependency>  <groupId>ch.qos.logback</groupId>  <artifactId>logback-classic</artifactId>  <version>1.2.3</version>  </dependency> |

STEP 2 – Java class for SLF4J Logging

* “slf4jtesting.java” for logging.

Code:

|  |
| --- |
| **package** mockdemo.MockDemo;  **import** org.slf4j.Logger;  **import** org.slf4j.LoggerFactory;  **public** **class** slf4jtesting {  **private** **static** **final** Logger ***logger*** = LoggerFactory.*getLogger*(slf4jtesting.**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");  ***logger***.trace("This is a TRACE message");  }  } |

* Logback.xml

Code:

|  |
| --- |
| <configuration>  <appender name="STDOUT" class="ch.qos.logback.core.ConsoleAppender">  <encoder>  <pattern>%d{HH:mm:ss} [%thread] %-5level %logger{36} - %msg%n</pattern>  </encoder>  </appender>  <root level="DEBUG">  <appender-ref ref="STDOUT" />  </root>  </configuration> |

Output:

