SL4J Logging exercises

Exercise 1: Logging Error Messages and Warning Levels using SLF4J

Task: Create a Java application that logs error and warning messages using SLF4J.

Step 1: Add dependencies to pom.xml (for a Maven project)

<dependencies> <dependency>

<groupId>org.slf4j</groupId>

<artifactId>slf4j-api</artifactId>

<version>1.7.30</version>

</dependency> <dependency>

<groupId>ch.qos.logback

<artifactId>logback-classic</artifactId>

<version>1.2.3</version>

</dependency> </dependencies>

Step 2: Create a Java class with logging

LoggingExample.java

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");
}
}
Step 3: Create logback.xml file
You can create a logback.xml in src/main/resources for formatting:
<appender name="CONSOLE"
class="ch.qos.logback.core.ConsoleAppender">
  <encoder>
     <pattern>%d{HH:mm:ss} %-5level [%thread] %logger{36} -
%msg%n</pattern>
  </encoder>
</appender>
<root level="debug">
  <appender-ref ref="CONSOLE" />
</root>
Output:
When we run the program, it will print:
```

HH:mm:ss ERROR [main] LoggingExample - This is an error message

HH:mm:ss WARN [main] LoggingExample - This is a warning message.