Logging using SLF4J

Exercise 1: Logging Error Messages and Warning Levels

Task: Write a Java application that demonstrates logging error messages and warning levels using SLF4J.

Step-by-Step Solution:

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

```
<dependency>
     <groupId>org.slf4j</groupId>
     <artifactId>slf4j-api</artifactId>
     <version>1.7.30</version>
</dependency>
<dependency>
     <groupId>ch.qos.logback</groupId>
          <artifactId>logback-classic</artifactId>
          <version>1.2.3
/dependency>
```

```
<u>17</u>⊖ <dependencies>
     <dependency>
       <groupId>org.slf4j</groupId>
20
         <artifactId>slf4j-api</artifactId>
21
         <version>1.7.30
22
     </dependency>
23
     <!-- Logback (SLF4J Implementation) -->
25⊝
    <dependency>
26
       <groupId>ch.qos.logback
27
         <artifactId>logback-classic</artifactId>
28
         <version>1.2.3
     </dependency>
29
30 </dependencies>
32 </project>
```

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

```
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");
 }
}
1 import org.slf4j.Logger;
  2 import org.slf4j.LoggerFactory;
 4 public class LoggingExample {
        private static final Logger = LoggerFactory.getLogger(LoggingExample.class);
 7
 80
        public static void main(String[] args) {
 9
            Logger.error("This is an error message");
            Logger.warn("This is a warning message");
 10
 11
 12 }
                                                       🔐 Problems @ Javadoc 🖳 Declaration 📃 Console 🗵
<terminated> LoggingExample [Java Application] C:\Users\SUBHUNDU\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.fu
11:34:19.620 [main] ERROR LoggingExample - This is an error message
```

11:34:19.630 [main] WARN LoggingExample - This is a warning message