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:

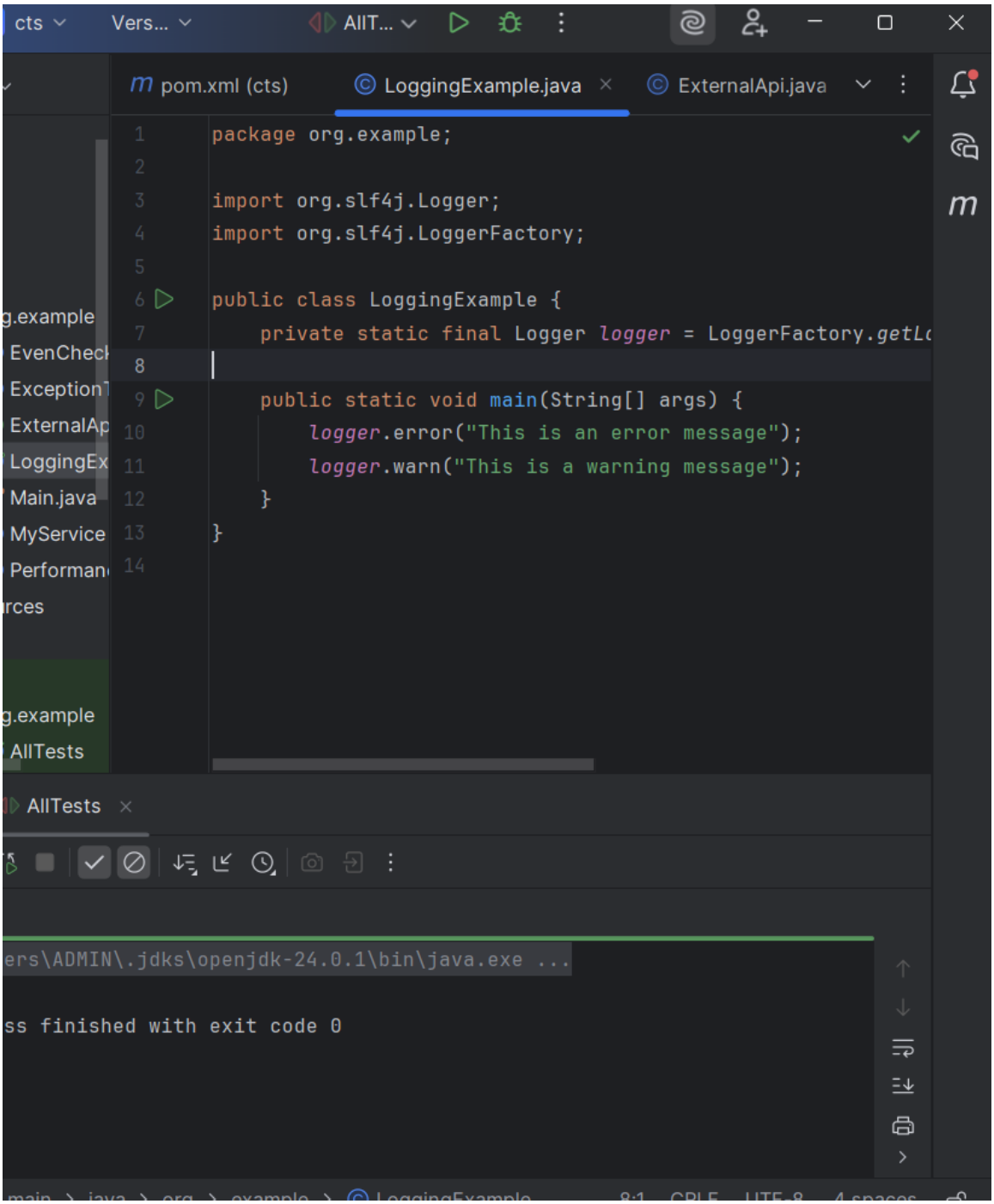
```
<dependency>
   <groupId>org.slf4j</groupId>
   <artifactId>slf4j-api</artifactId>
   <version>1.7.30</version>
</dependency>
<dependency>
   <groupId>ch.qos.logback</groupId>
   <artifactId>logback-classic</artifactId>
   <version>1.2.3</version> </dependency>
```

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");
   }
}
```



Exercise 2: Parameterized Logging

Task: Write a Java application that demonstrates parameterized logging using SLF4J.

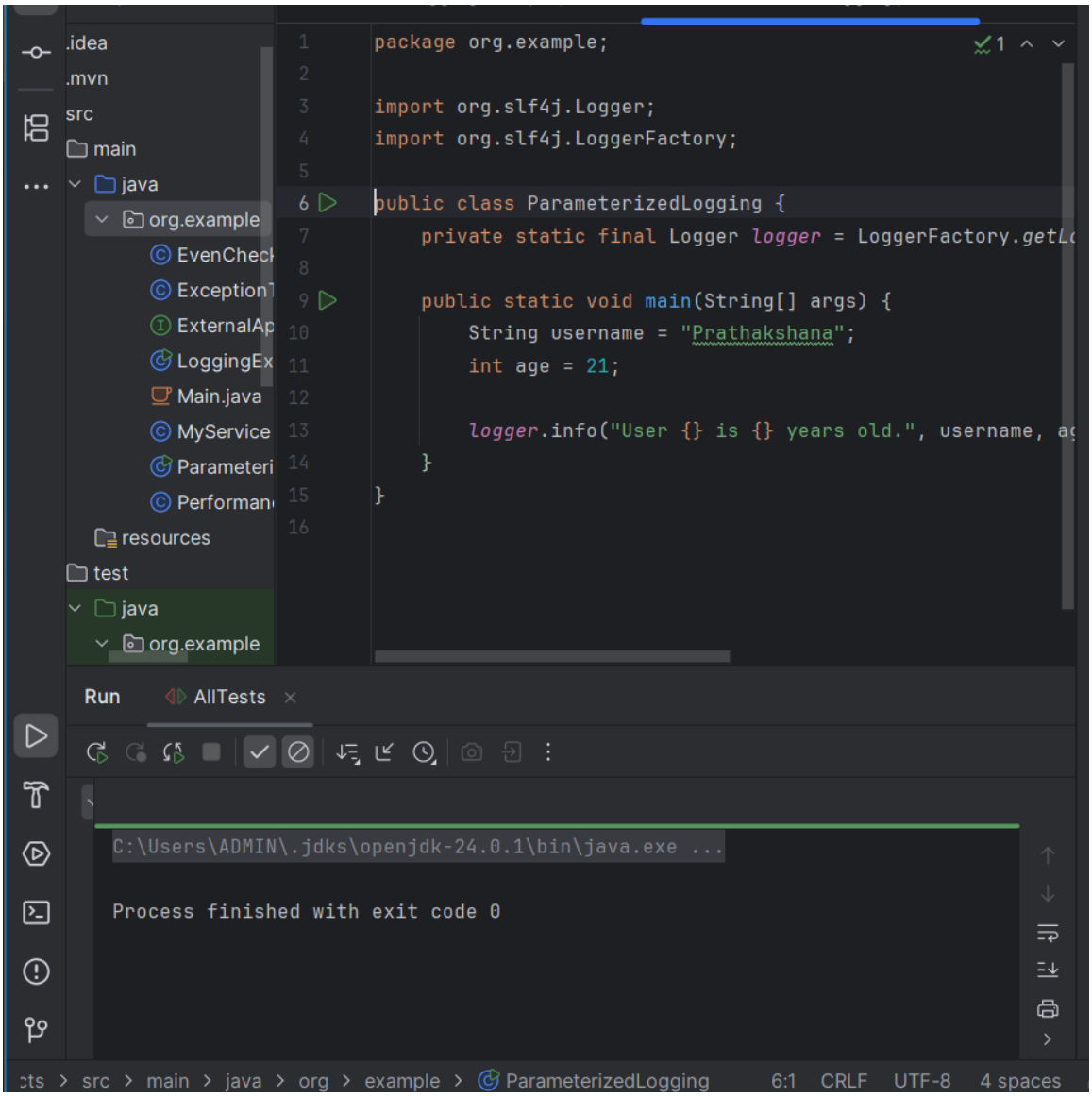
Step-by-Step Solution:

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</version> </dependency>
```

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

Write code for this.



Exercise 3: Using Different Appenders

Task: Write a Java application that demonstrates using different appenders with 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</version> </dependency>
```

2. Create a `logback.xml` configuration file to define different appenders:

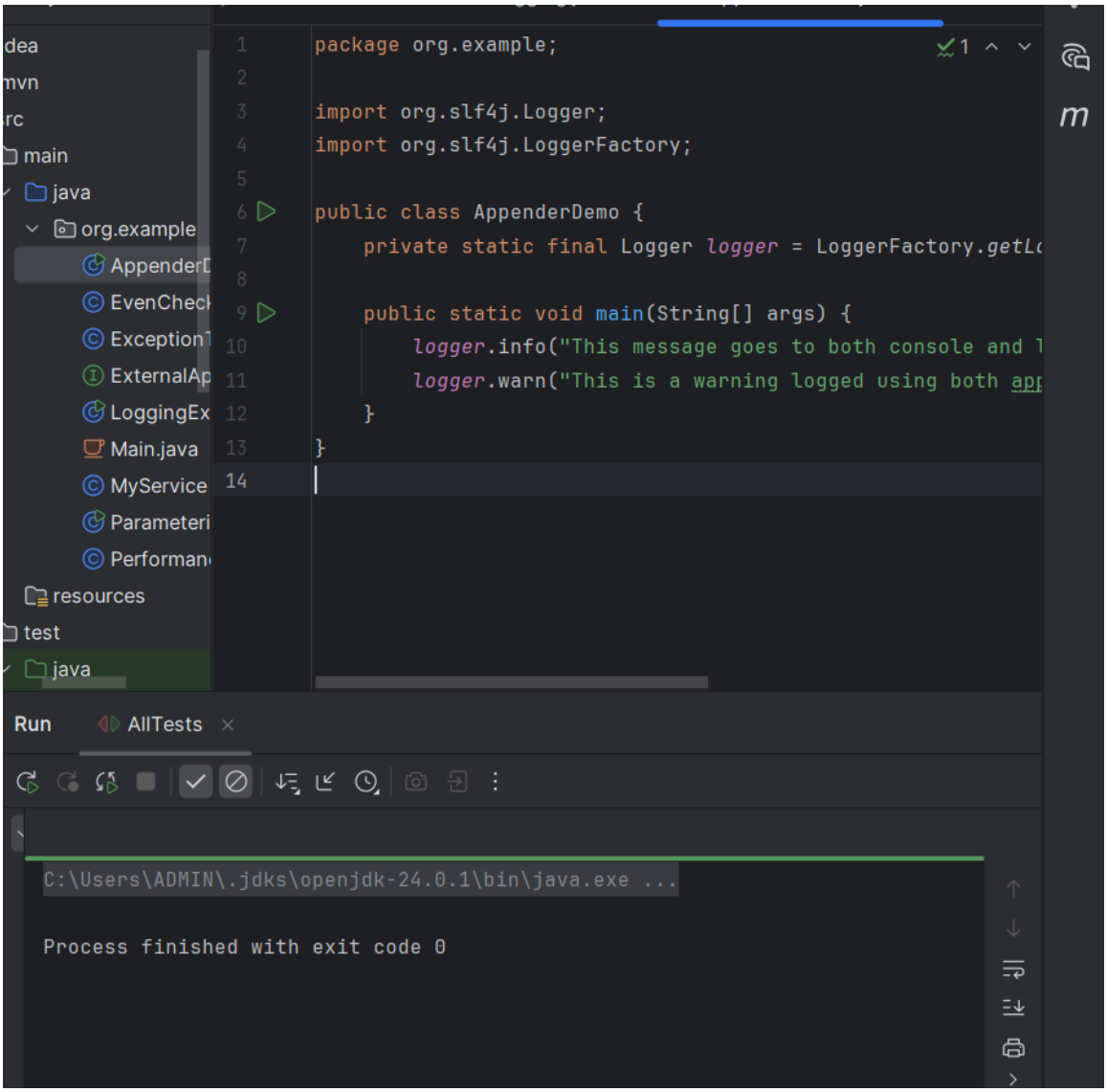
```
<configuration>
   <appender name="console" class="ch.qos.logback.core.ConsoleAppender">
      <encoder>
         <pattern>%d{HH:mm:ss.SSS} [%thread] %-5level %logger{36} - %msg%n</pattern>
      </encoder>
   </appender>

   <appender name="file" class="ch.qos.logback.core.FileAppender">
      <file>app.log</file>
      <encoder>
         <pattern>%d{HH:mm:ss.SSS} [%thread] %-5level %logger{36} - %msg%n</pattern>
      </encoder>
   </appender>

   <root level="debug">
      <appender-ref ref="console" />
      <appender-ref ref="file" />
   </root>
</configuration>
```

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

Write code for this.


idea
mvn
rc
main
java
org.example
AppenderD
EvenCheck
ExceptionT
ExternalAp
LoggingEx
Main.java
MyService
Parameteri
Performan
resources
test
java
1 package org.example;
2
3 import org.slf4j.Logger;
4 import org.slf4j.LoggerFactory;
5
6 public class AppenderDemo {
7 private static final Logger logger = LoggerFactory.getLo
8
9 public static void main(String[] args) {
10 logger.info("This message goes to both console and l
11 logger.warn("This is a warning logged using both app
12 }
13 }
14
Run
AllTests
C:\Users\ADMIN\.jdks\openjdk-24.0.1\bin\java.exe ...
Process finished with exit code 0