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"); } }
```

Ouput:

Exercise 2: Parameterized Logging Task:

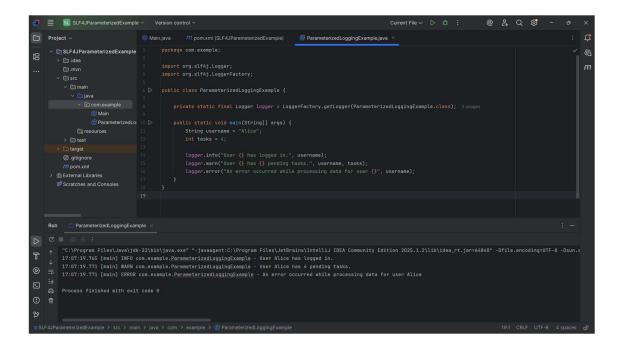
Write a Java application that demonstrates parameterized logging using SLF4J.

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: Output:



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></dependency></dependency></dependency></dependency></dependency></dependency></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:

Output: