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

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

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

Write code for this.