SLF4J LOGGING

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Mandatory Questions:

1) Exercise 1: Logging Error Messages and Warning Levels

Solution:

//pom.xml

```
<dependencies>
  <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>
</dependencies>
```

//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");
  }
}
```

Other Questions:

2) Exercise 2: Parameterized Logging

Solution:

//ParameterizedLogging.java

```java
import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

public class ParameterizedLogging {

    private static final Logger logger =
LoggerFactory.getLogger(ParameterizedLogging.class);

    public static void main(String[] args) {

        String username = "Mohana";

        int age = 22;

        logger.info("User {} logged in, Age: {}", username, age);

        logger.debug("Debug mode for user: {}", username);

    }

}
```

3) Exercise 3: Using Different Appenders

Solution:

//logback.xml

```xml
 <configuration>

   <appender name="console" class="ch.qos.logback.core.ConsoleAppender">

     <encoder>

       <pattern>%d{HH:mm:ss} %-5level - %msg%n</pattern>

     </encoder>

   </appender>

   <appender name="file" class="ch.qos.logback.core.FileAppender">

     <file>logs/app.log</file>

     <encoder>

       <pattern>%d{HH:mm:ss} %-5level - %msg%n</pattern>

     </encoder>
```

```xml
    </appender>

    <root level="info">

        <appender-ref ref="console" />

        <appender-ref ref="file" />

    </root>

</configuration>
```

//MultiAppenderExample.java

```java
import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

public class MultiAppenderExample {

    private static final Logger logger = LoggerFactory.getLogger(MultiAppenderExample.class);

    public static void main(String[] args) {

        logger.info("Info message logged to console and file");

        logger.warn("Warning message logged to both destinations");

        logger.error("Error message appears in both console and file");

    }

}
```