6- SLF4J Logging Exercises

**Exercise 1: Logging Error Messages and Warning Levels**

**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) {

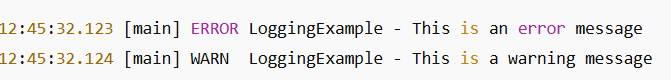
logger.error("This is an error message");

logger.warn("This is a warning message");

}

}

**OUTPUT:**



**Exercise 2: Parameterized Logging**

**ParameterizedLogging.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 = "john";

int age = 30;

logger.info("User {} is {} years old", username, age);

}

}

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**Exercise 3: Using Different Appenders**

**AppenderExample.java**

import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

public class AppenderExample {

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

public static void main(String[] args) {

logger.info("This message goes to both console and file");

}

}

**logback.xml**

<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>

**Output:**

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