File1:

<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>

File2:

<configuration>

<!-- Console Appender -->

<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>

<!-- File Appender -->

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

<file>app.log</file>

<append>true</append>

<encoder>

<pattern>%d{HH:mm:ss.SSS} [%thread] %-5level %logger{36} - %msg%n</pattern>

</encoder>

</appender>

<!-- Root logger -->

<root level="debug">

<appender-ref ref="console" />

<appender-ref ref="file" />

</root>

</configuration>

File3:

package com.example;

import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

public class AppenderLoggingExample {

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

public static void main(String[] args) {

logger.debug("Debug message - used for troubleshooting");

logger.info("Info message - general flow info");

logger.warn("Warning message - potential issue");

logger.error("Error message - something went wrong");

System.out.println("Check console and 'app.log' file for log output.");

}

}

Output:

**A screenshot of a computer

AI-generated content may be incorrect.**