**Exercise 3: Using Different Appenders**

**Pom.xml file:**

<?xml version="1.0" encoding="UTF-8"?>

<project xmlns="http://maven.apache.org/POM/4.0.0"

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">

<modelVersion>4.0.0</modelVersion>

<groupId>org.example</groupId>

<artifactId>SL4JLogging</artifactId>

<version>1.0-SNAPSHOT</version>

<properties>

<maven.compiler.source>22</maven.compiler.source>

<maven.compiler.target>22</maven.compiler.target>

<project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>

</properties>

<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>

</project>

**logback.xml file:**

<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>

**MultipleAppenderExample.java file:**

package org.example;

import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

public class MultipleAppenderExample {

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

public static void main(String[] args) {

logger.info("This message should appear in both console and app.log file");

logger.warn("Warning! Something might need your attention.");

logger.error("This is an error message logged to both outputs.");

}

} 