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**DN 4.0 - Java FSE Mandatory Hands-on**

**WEEK – 2**

**SL4J LOGGING EXERCISES**

**EXERCISE 1: LOGGING ERROR MESSAGES AND WARNING LEVELS TASK**

**pom.xml**

<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>com.example</groupId>

    <artifactId>slf4j-logging</artifactId>

    <version>1.0-SNAPSHOT</version>

    <packaging>jar</packaging>

    <properties>

        <maven.compiler.source>1.8</maven.compiler.source>

        <maven.compiler.target>1.8</maven.compiler.target>

    </properties>

    <dependencies>

        <!-- SLF4J API -->

        <dependency>

            <groupId>org.slf4j</groupId>

            <artifactId>slf4j-api</artifactId>

            <version>2.0.9</version>

        </dependency>

        <!-- SLF4J Simple backend -->

        <dependency>

            <groupId>org.slf4j</groupId>

            <artifactId>slf4j-simple</artifactId>

            <version>2.0.9</version>

        </dependency>

    </dependencies>

    <build>

        <plugins>

            <plugin>

                <groupId>org.codehaus.mojo</groupId>

                <artifactId>exec-maven-plugin</artifactId>

                <version>3.1.0</version>

                <configuration>

                    <mainClass>com.example.exercise1.code.LoggingExercise</mainClass>

                </configuration>

            </plugin>

        </plugins>

    </build>

</project>

**LoggingExample.java**

package com.example.exercise1.code;

import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

public class LoggingExercise {

    public static void main(String[] args) {

        Logger logger = LoggerFactory.getLogger(LoggingExercise.class);

        logger.info("SLF4J Logging Exercise Started.");

        logger.warn("Warning: Disk space is almost full.");

        logger.error("Error: Unable to connect to the database.");

        logger.info("SLF4J Logging Exercise Completed.");

    }

}

**logback.xml**

<configuration>

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

<encoder>

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

</encoder>

</appender>

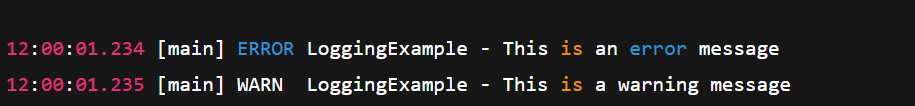
<root level="debug">

<appender-ref ref="STDOUT" />

</root>

</configuration>

**OUTPUT:**

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