

## SLF4J LOGGING

**Superset ID :** 6393540

**Name :** ANTONY PRAVEEN E

**E-mail :** [antonypraveen.2205009@srec.ac.in](mailto:antonypraveen.2205009@srec.ac.in)

### **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

```
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

```
<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>
    </appender>
</configuration>
```

```
</appender>

<root level="info">

    <appender-ref ref="console" />

    <appender-ref ref="file" />

</root>

</configuration>

//MultiAppenderExample.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");

    }

}
```