Logging using SLF4J

# Exercise 1: Logging Error Messages and Warning Levels

Task: Write a Java application that demonstrates logging error messages and warning levels using SLF4J.

## Step-by-Step Solution:

1. Add SLF4J and Logback dependencies to your `pom.xml` file:

<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>

1. Create a Java class that uses SLF4J for logging:

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");

}

}

**Program:**

**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");

}

}

**pom.xml:**

<project>

<modelVersion>4.0.0</modelVersion>

<groupId>mygroupid</groupId>

<artifactId>myartifactid</artifactId>

<version>0.0-SNAPSHOT</version>

<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>

**.replit:**

run = "javac -cp '.:slf4j-api-1.7.30.jar:logback-classic-1.2.3.jar:logback-core-1.2.3.jar' LoggingExample.java && java -cp '.:slf4j-api-1.7.30.jar:logback-classic-1.2.3.jar:logback-core-1.2.3.jar' LoggingExample"

**replit.nix:**

{ pkgs }: {

deps = [

pkgs.openjdk

];

}

**Output:**

