6. SL4J Logging exercises

Exercise 1: Logging Error Messages and Warning Levels

CODE

```java
package com.example.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");
    }
}
```
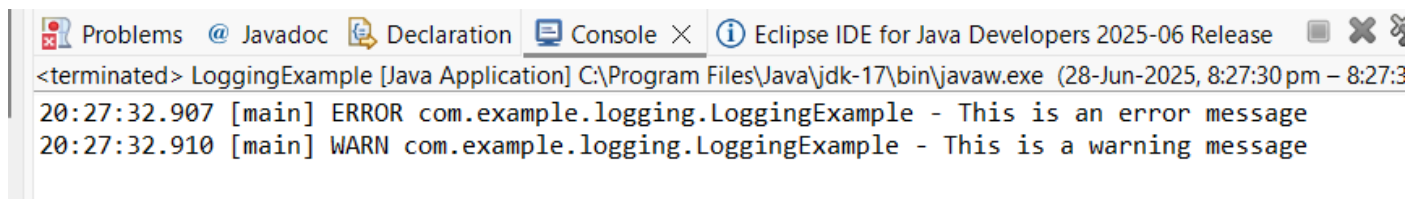
OUTPUT


```
Problems  @ Javadoc  Declaration  Console X  (i) Eclipse IDE for Java Developers 2025-06 Release
<terminated> LoggingExample [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe  (28-Jun-2025, 8:27:30 pm – 8:27:3
20:27:32.907 [main] ERROR com.example.logging.LoggingExample - This is an error message
20:27:32.910 [main] WARN com.example.logging.LoggingExample - This is a warning message
```

Exercise 2: Parameterized Logging

CODE

```java
package com.example.logging;

import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

public class ParameterizedLoggingExample {
    private static final Logger logger = LoggerFactory.getLogger(ParameterizedLoggingExample.class);

    public static void main(String[] args) {
        String username = "kiruthika";
        int id = 123;
```

```
logger.info("User {} logged in with ID {}", username, id);

  }

}
```

OUTPUT


```
<terminated> ParameterizedLoggingExample [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe  (28-Jun-2025, 8:30:25 pm – 8:30:28 pm elapsed: 0:0
20:30:28.353 [main] INFO com.example.logging.ParameterizedLoggingExample - User kiruthika logged in with ID 123
```

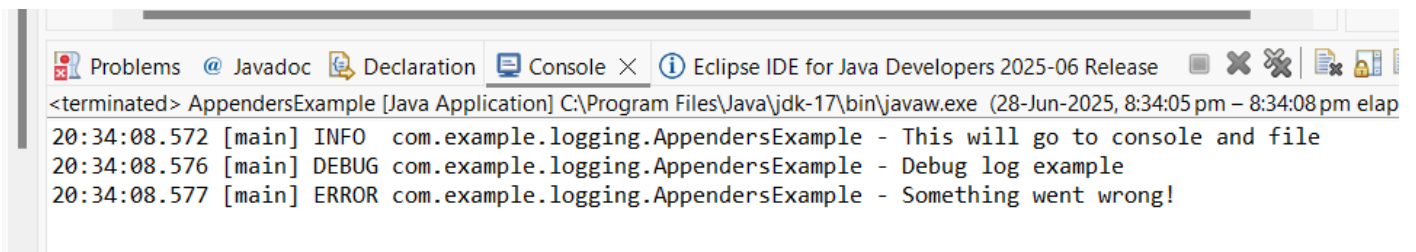**Exercise 3: Using Different Appenders**

CODE

```java
package com.example.logging;


import org.slf4j.Logger;

import org.slf4j.LoggerFactory;


public class AppendersExample {

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


    public static void main(String[] args) {

        logger.info("This will go to console and file");

        logger.debug("Debug log example");

        logger.error("Something went wrong!");

    }

}
```

OUTPUT


```
<terminated> AppendersExample [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe  (28-Jun-2025, 8:34:05 pm – 8:34:08 pm elap
20:34:08.572 [main] INFO  com.example.logging.AppendersExample - This will go to console and file
20:34:08.576 [main] DEBUG com.example.logging.AppendersExample - Debug log example
20:34:08.577 [main] ERROR com.example.logging.AppendersExample - Something went wrong!
```