

Exercise 1: Logging Error Messages and Warning Levels

Main.java

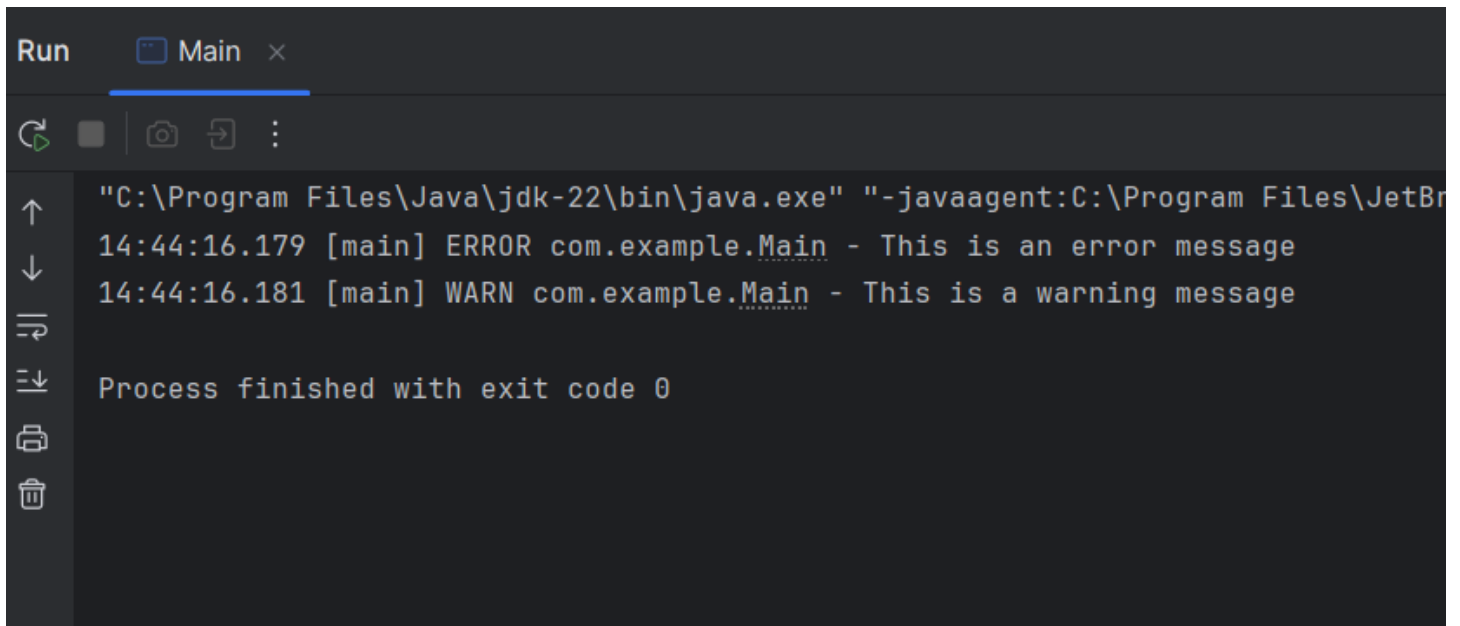
```
package com.example;

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

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

    public static void main(String[] args) {
        logger.error("This is an error message");
        logger.warn("This is a warning message");
    }
}
```

Output:



```
Run  Main x
"C:\Program Files\Java\jdk-22\bin\java.exe" "-javaagent:C:\Program Files\JetBr
14:44:16.179 [main] ERROR com.example.Main - This is an error message
14:44:16.181 [main] WARN com.example.Main - This is a warning message

Process finished with exit code 0
```

Exercise 2: Parameterized Logging

Main.java

```
package com.example;

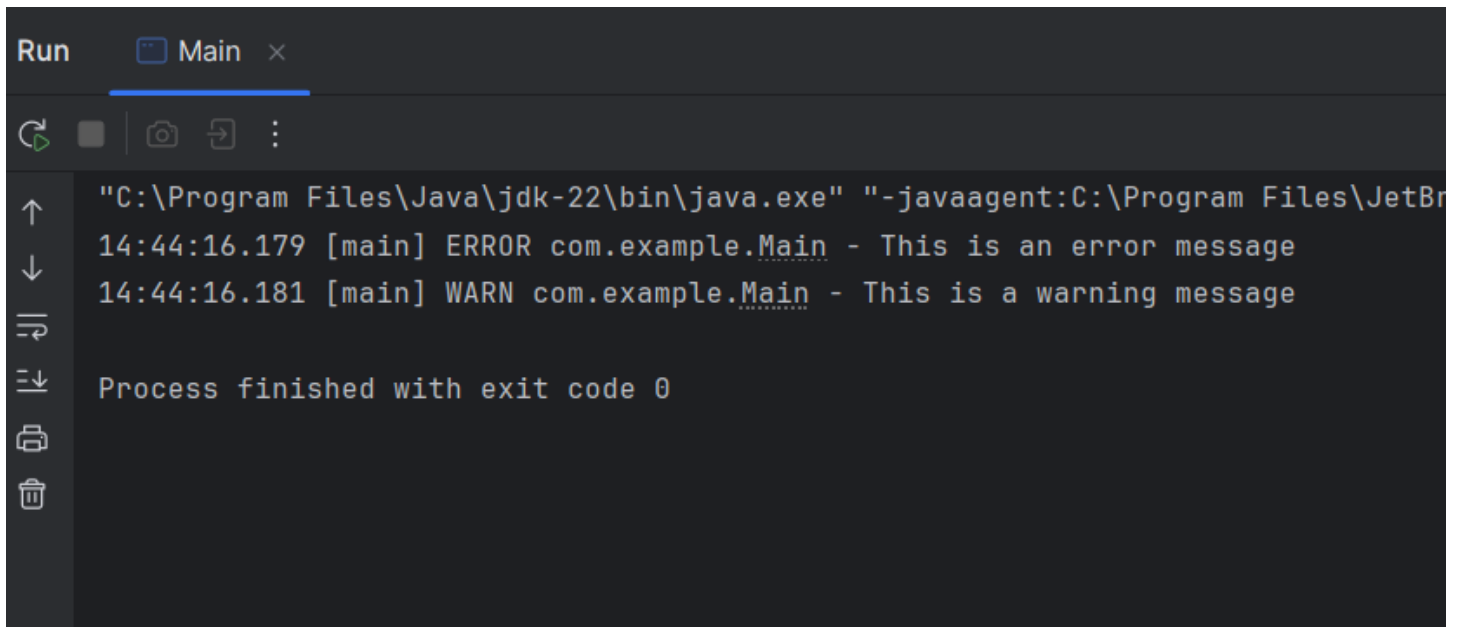
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

public class Main {

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

    public static void main(String[] args) {
        String user = "Sid";
        int age = 20;
        logger.info("User {} has logged in.", user);
        logger.warn("User {} is {} years old - verify age!", user, age);
        logger.error("Login attempt failed for user: {}", user);
    }
}
```

Output:



```
Run  Main x
"C:\Program Files\Java\jdk-22\bin\java.exe" "-javaagent:C:\Program Files\JetBr
14:44:16.179 [main] ERROR com.example.Main - This is an error message
14:44:16.181 [main] WARN com.example.Main - This is a warning message

Process finished with exit code 0
```

3: Using Different Appenders

Main.java

```
package com.example;

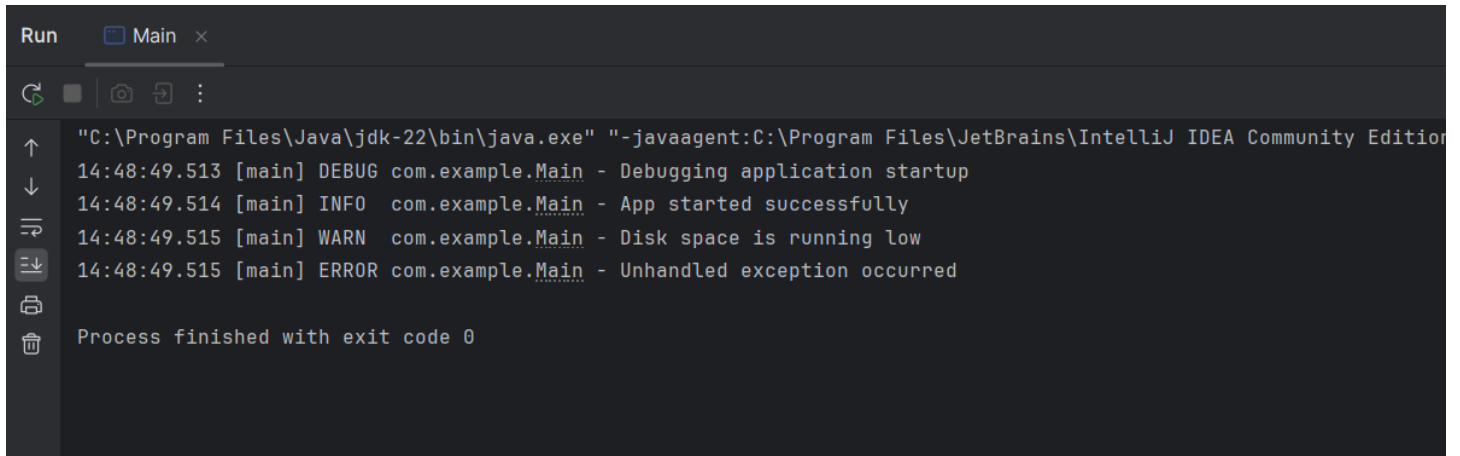
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

public class Main {

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

    public static void main(String[] args) {
        logger.debug("Debugging application startup");
        logger.info("App started successfully");
        logger.warn("Disk space is running low");
        logger.error("Unhandled exception occurred");
    }
}
```

Output:



```
Run  Main x
"C:\Program Files\Java\jdk-22\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition
14:48:49.513 [main] DEBUG com.example.Main - Debugging application startup
14:48:49.514 [main] INFO  com.example.Main - App started successfully
14:48:49.515 [main] WARN  com.example.Main - Disk space is running low
14:48:49.515 [main] ERROR com.example.Main - Unhandled exception occurred

Process finished with exit code 0
```