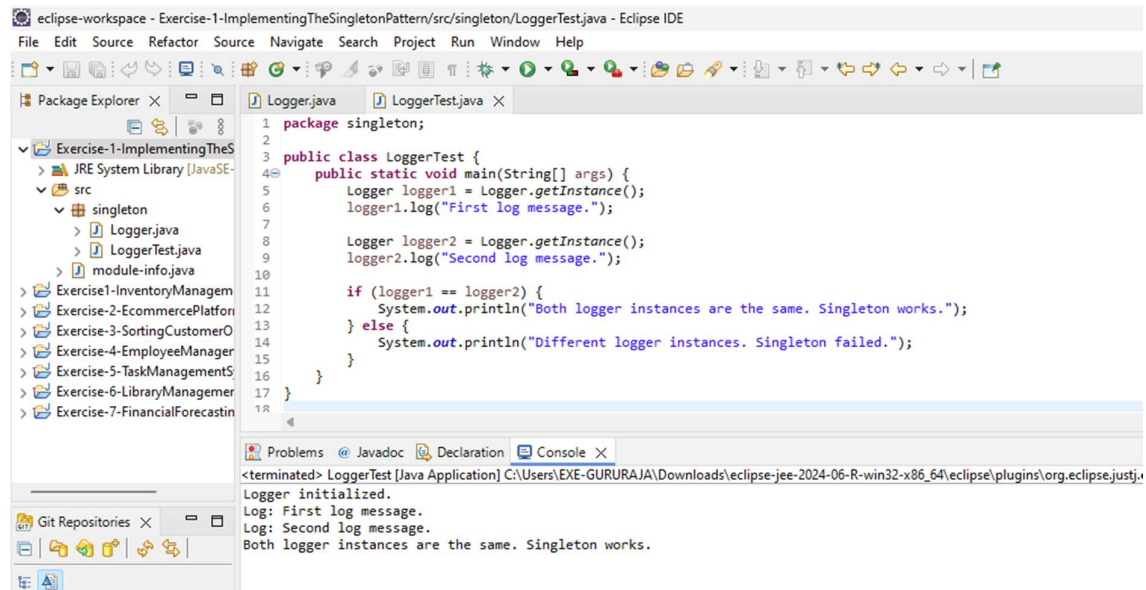


Exercise 1: Implementing the Singleton Pattern

Output Screenshots:



```
1 package singleton;
2
3 public class LoggerTest {
4     public static void main(String[] args) {
5         Logger logger1 = Logger.getInstance();
6         logger1.log("First log message.");
7
8         Logger logger2 = Logger.getInstance();
9         logger2.log("Second log message.");
10
11         if (logger1 == logger2) {
12             System.out.println("Both logger instances are the same. Singleton works.");
13         } else {
14             System.out.println("Different logger instances. Singleton failed.");
15         }
16     }
17 }
18
```

Console Output:

```
<terminated> LoggerTest [Java Application] C:\Users\EXE-GURURAJA\Downloads\eclipse-jee-2024-06-R-win32-x86_64\eclipse\plugins\org.eclipse.justj...
Logger initialized.
Log: First log message.
Log: Second log message.
Both logger instances are the same. Singleton works.
```