Exercise 1: Implementing the Singleton Pattern

Output Screenshots:

```
🧱 eclipse-workspace - Exercise-1-ImplementingTheSingletonPattern/src/singleton/LoggerTest.java - Eclipse IDE
File Edit Source Refactor Source Navigate Search Project Run Window Help
🔋 Package Explorer 🗴 📅 🗓 Logger.java 🔃 LoggerTest.java 🗴
              1 package singleton;
> D Logger.java
                                         Logger logger2 = Logger.getInstance();
logger2.log("Second log message.");
        > D LoggerTest.java
      > 🚺 module-info.java
                                         if (logger1 == logger2) {
    System.out.println("Both logger instances are the same. Singleton works.");
} else {
    System.out.println("Different logger instances. Singleton failed.");
}
> 🔁 Exercise1-InventoryManagem 11
> 🔁 Exercise-2-EcommercePlatfor 12
 > 🔀 Exercise-3-SortingCustomerO
 > 🔀 Exercise-4-EmployeeManager
                                           }
> Exercise-5-TaskManagementS 16
> Exercise-6-LibraryManagemer 17 }
                                       }
 > 🔀 Exercise-7-FinancialForecastin
                              Problems @ Javadoc   □ Declaration  □ Console ×
                              <terminated> LoggerTest [Java Application] C:\Users\EXE-GURURAJA\Downloads\eclipse-jee-2024-06-R-win32-x86_64\eclipse\plugins\org.eclipse.justj.
                              Logger initialized.
Git Repositories X □ □ Log: First log message.
Log: Second log message.
Both logger instances are the same. Singleton works.
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t A
```