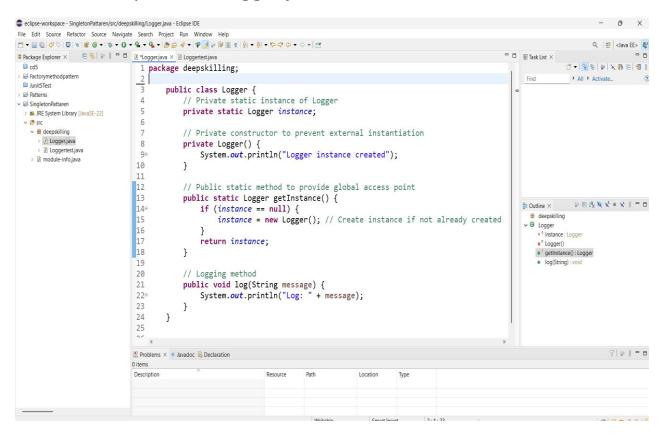
## **Singleton Patterns**

-----

Note: created the class according to provided wordfile of hands-on file in the git Repository

```
Loggerclass.java
Code:
package deepskilling;
     public class Logger {
       // Private static instance of Logger
       private static Logger instance;
       // Private constructor to prevent external instantiation
       private Logger() {
         System.out.println("Logger instance created");
       }
       // Public static method to provide global access point
       public static Logger getInstance() {
if (instance == null) {
```

## Pic from Eclipse IDE: Logger.java



```
LoggerTest.java
code:
package deepskilling;
public class Loggertest {
  public static void main(String[] args) {
    Logger logger1 = Logger.getInstance();
    Logger logger2 = Logger.getInstance();
    logger1.log("First log message");
    logger2.log("Second log message");
    // Check if both instances are the same
    if (logger1 == logger2) {
       System.out.println("Same Logger instance used!");
    } else {
       System.out.println("Different Logger instances!
Singleton failed.");
    }
```

```
}
```

## Pic from Eclipse IDE: LoggerTest.java

```
eclipse-workspace - SingletonPattaren/src/deepskilling/Loggertest.java - Eclipse IDE
File Edit Source Refactor Source Navigate Search Project Run Window Help
Q 📳 <Java EE> 🐉
I Package Explorer × □ 🕏 🕏 🖟 🔭 🗂 🖟 Loggerjava 🖟 Loggertestjava ×
                                                                                                                           □ □ ■ Task List ×
                                                                                                                                      ↑ | % % | % | × | % | ⊞ | % | 8
                              1 package deepskilling;
> 📂 Factorymethodpattern
                                                                                                                                           All Activate...
                               3 public class Loggertest {
> 📂 Patterns
                                    public static void main(String[] args) {
v 🖒 SingletonPattaren
                                         Logger logger1 = Logger.getInstance();
  > M JRE System Library [JavaSE-22]
                                         Logger logger2 = Logger.getInstance();
   v # deenskilling
     D Logger.java
                                         logger1.log("First log message");

    Loggertest.java
    module-info.java

                                         logger2.log("Second log message");
                                          // Check if both instances are the same
                                         if (logger1 == logger2) {
                                              System.out.println("Same Logger instance used!");
                                                                                                                               } else {
                                             System.out.println("Different Logger instances! Singleton failed.");
                             15

√ O<sub>▶</sub> Loggertest

                             16
                                                                                                                                  • s main(String[]) : void
                             17
                             18 }
                                                                                                                                                     7 | p 8 - 0
```

## **Result: OUTPUT**

```
eclipse-workspace - SingletonPattaren/src/deepskilling/Loggertest_java - Eclipse IDE
File Edit Source Refactor Source Navigate Search Project Run Window Help

The Edit Source Refactor Source Navigate Search Project Run Window Help

The Edit Source Refactor Source Navigate Search Project Run Window Help

The Edit Source Refactor Source Navigate Search Project Run Window Help

The Edit Source Refactor Source Navigate Search Project Run Window Help

The Edit Source Refactor Source Navigate Search Project Run Window Help

The Edit Source Refactor Source Navigate Search Project Run Window Help

The Edit Source Refactor Source Navigate Search Project Run Window Help

The Edit Source Refactor Source Navigate Search Project Run Window Help

The Edit Source Refactor Source Navigate Search Project Run Window Help

The Edit Source Refactor Source Navigate Search Project Run Window Help

The Edit Source Refactor Source Navigate Search Project Run Window Help

The Edit Source Refactor Source Navigate Search Project Run Window Help

The Edit Source Refactor Source Navigate Search Project Run Window Help

The Edit Source Refactor Source Navigate Search Project Run Window Help

The Edit Source Refactor Source Navigate Search Project Run Window Help

The Edit Source Refactor Source Navigate Search Project Run Window Help

The Edit Source Refactor Source Navigate Search Project Run Window Help

The Edit Source Refactor Source Navigate Search Project Run Window Help

The Edit Source Refactor Source Run Window Help

The Edit Source Run Window He
                                                                                                                                                                                                                                                                                                                                                                                           Q 📳 <Java EE> 1
                                                                                                                                                                                                                                                                                                                                                        □ □ □ Task List × □ □ □ □ Task List ×
    cd5
Factorymethodpattern
                                                                                             1 package deepskilling;
     Junit5Test
                                                                                                3 public class Loggertest {

    SingletonPattaren
    ■ JRE System Library [JavaSE-22]
    ▼ src
    ▼ the deepskilling
                                                                                               40
                                                                                                                      public static void main(String[] args) {
                                                                                                                                    Logger logger1 = Logger.getInstance();
                                                                                               5

    Loggerjava
    Loggertestjava
    module-infojava

                                                                                                6
                                                                                                                                     7
                                                                                                                                                                                                                                                                                                                                                                  BE Outline × □ □ 182 € ½ 0 ½ 1 □ 1
                                                                                                                                                                                                                                                                                                                                                                   ## deepskilling

• G. Loggertest

• * main(String[]): void
                                                                                                8
                                                                                                                                                   Press F2 for focus ("First log message");
                                                                                                9
                                                                                                                                     logger2.log("Second log message");
                                                                                             10
                                                                                                                                     // Check if both instances are the same
                                                                                            11
                                                                                                                                     if (logger1 == logger2) {
                                                                                            12
                                                                                           12
                                                                                                                                                   System out nrintln/"Came logger instance used!").
                                                                                           Logger instance created
                                                                                           Log: First log message
                                                                                           Log: Second log message
                                                                                           Same Logger instance used!
                                                                                                                                                                                                              Writable Smart Insert 15:68:517
```