

## Singleton Patterns

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

Loggerclass.java

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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) {
```

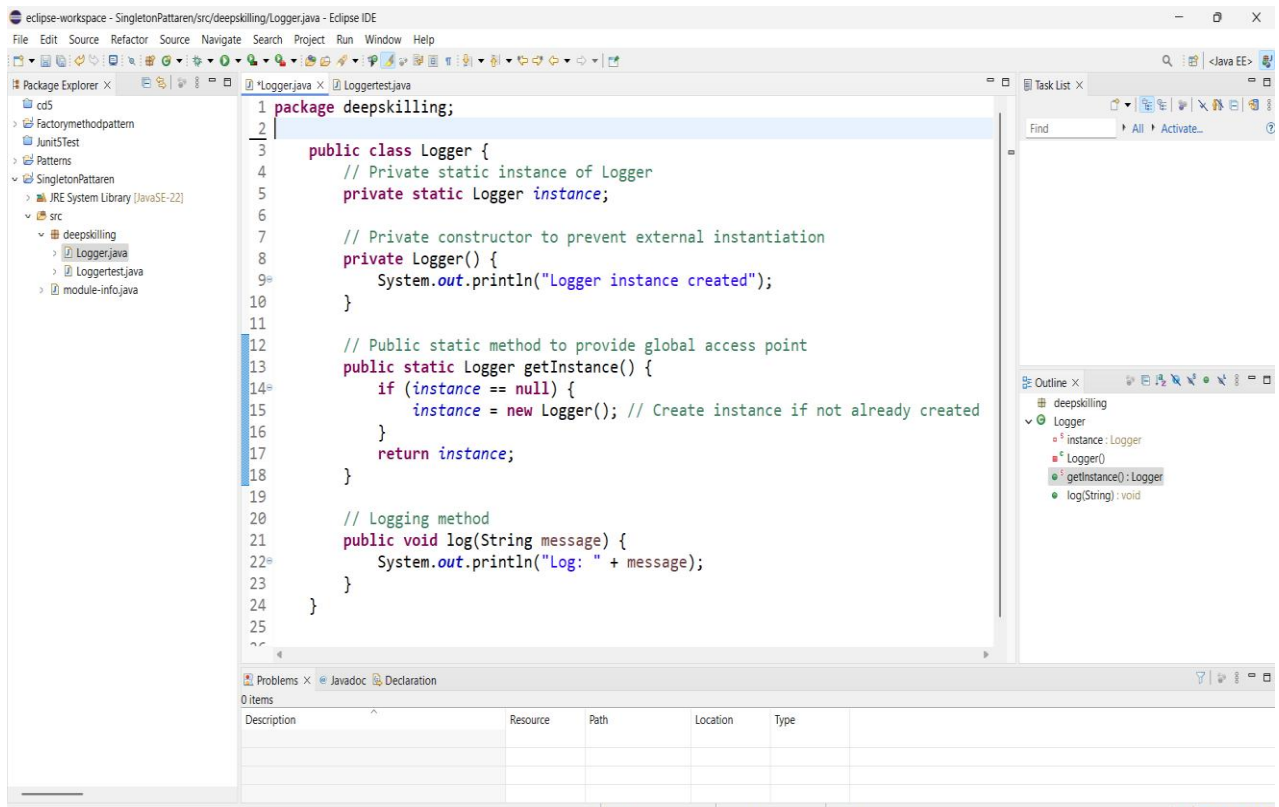
```
        instance = new Logger(); // Create instance if not  
already created
```

```
    }  
  
    return instance;  
  
}
```

```
// Logging method
```

```
public void log(String message) {  
  
    System.out.println("Log: " + message);  
  
}  
  
}
```

Pic from Eclipse IDE: Logger.java



LoggerTest.java

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code:

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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 {

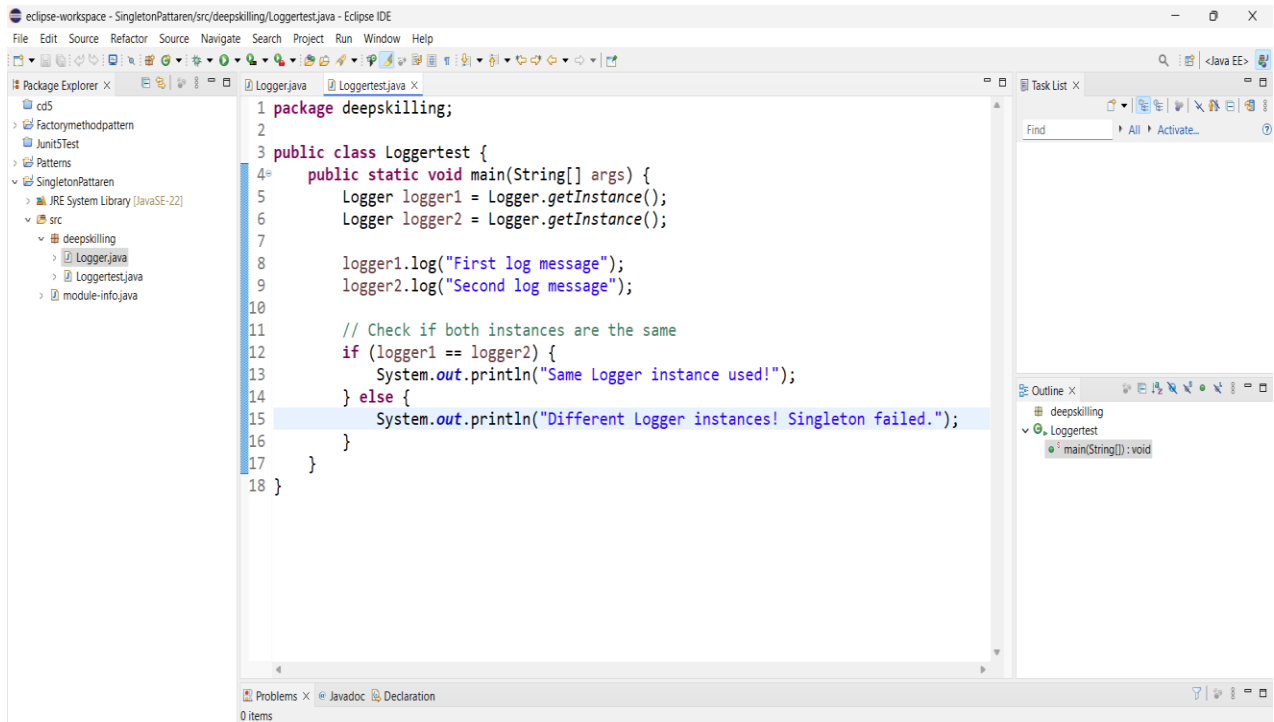
System.out.println("Different Logger instances!  
Singleton failed.");

}

}

}

## Pic from Eclipse IDE: LoggerTest.java



## Result: OUTPUT

