# Intro to Java Week 5 Coding Assignment

Points possible: 70

Category	Criteria	% of Grade
Functionality	Does the code work?	25
Organization	Is the code clean and organized? Proper use of white space, syntax, and consistency are utilized.  Names and comments are concise and clear.	25
Creativity	Student solved the problems presented in the assignment using creativity and out of the box thinking.	25
Completeness	All requirements of the assignment are complete.	25

**Instructions:** In Eclipse, or an IDE of your choice, write the code that accomplishes the objectives listed below. Ensure that the code compiles and runs as directed. Take screenshots of the code and of the running program (make sure to get screenshots of all required functionality) and paste them in this document where instructed below. Create a new repository on GitHub for this week's assignments and push this document, with your Java project code, to the repository. Lastly, in the Learning Management System, click the "Add Submission" button and paste the URL to your GitHub repository.

### **Coding Steps:**

- 1. Create an interface named Logger.
- 2. Add two void methods to the Logger interface, each should take a String as an argument
  - a. Log
  - **b.** Error
- 3. Create two classes that implement the Logger interface
  - a. AsteriskLogger
  - **b.** SpacedLogger
- **4.** The log method on the AsteriskLogger should print out the String it receives between 3 asterisks on either side of the String (e.g. if the String passed in is "Hello", then it should print \*\*\*Hello\*\*\* to the console.

**5.** The error method on the AsteriskLogger should print the String it receives inside a box of asterisks, with the String preceded by the word "ERROR:". For example, if "Hello" is the argument, the following should be printed:

```
****************************
```

- **6.** The SpacedLogger should add spaces between each character of the String argument passed into its methods.
- 7. If the log method received "Hello" as an argument, it should print Hello
- **8.** The error method should do the same, but with "ERROR:" preceding the spaced out input (i.e. ERROR: H e 11 o)
- **9.** Create a class named App that has a main method.
- **10.** In this class instantiate an instance of each of your logger classes that implement the Logger interface.
- 11. Test both methods on both instances, passing in Strings of your choice.

#### **Screenshots of Code:**

Interface (Logger)

#### Class - SpacedLogger

```
App.java
                                   J Logger.java
                                                   SpacedLogger.java X
             AsteriskLogger.java
     package week5Homework;
  3
     public class SpacedLogger implements Logger {
  5⊝
         @Override
 6
         public void log(String log) {
             System.out.println(log.replace("", " ").trim());
  8
 9
 10⊖
         @Override
△11
         public void error(String error) {
             System.out.println("ERROR: "+ error.replace("", " ").trim());
 12
 13
 14
 15
 16
```

```
App.java
             Logger.java
                                                 SpacedLogger.java
    package week5Homework;
  3
    public class AsteriskLogger implements Logger {
  4
  5⊝
        @Override
        public void log(String log) {
6
            System.out.println("***" + log + "***");
  7
  8
  9
10⊖
        @Override
△11
        public void error(String error) {
            String errorMessage = "***" + error + "***";
 12
            String asterisks = "*".repeat(errorMessage.length());
 13
 14
            System.out.println(asterisks);
 15
            System.out.println();
 16
            System.out.println(errorMessage);
 17
            System.out.println();
 18
            System.out.println(asterisks);
        }
 19
 20
 21 }
 22
```

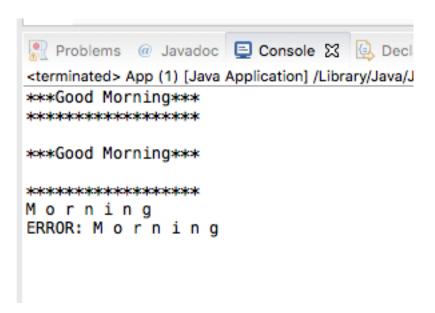
#### Class - App

```
AsteriskLogger.java
                                    Logger.java
                                                     SpacedLogger.java

    App.java 
    S

 1 package week5Homework;
 2
 3
    public class App {
 4
 5⊖
         public static void main(String[] args) {
 6
 7
             Logger asteriskLogger = new AsteriskLogger();
 8
             Logger spacedLogger = new SpacedLogger();
 9
10
11
             asteriskLogger.log("Good Morning");
12
13
             asteriskLogger.error("Good Morning");
14
             spacedLogger.log("Morning");
15
16
17
             spacedLogger.error("Morning");
18
         }
19
20
21
22
```

## **Screenshots of Running Application:**



## **URL to GitHub Repository:**

https://github.com/Christinalytle/week3Homework.git