

Points possible: 75

URL to GitHub Repository: https://github.com/AlexWarr/Week-05-Homework.git

URL to Public Link of your Video: https://youtu.be/WPw0yul64wo

Instructions:

- 1. Follow the **Coding Steps** below to complete this assignment.
 - 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.
 - Create a new repository on GitHub for this week's assignment and push your completed code to this dedicated repo.
 - Create a video showcasing your work:
 - In this video: record and present your project verbally while showing the results of the working project.
 - <u>Easy way to Create a video</u>: Start a meeting in Zoom, share your screen, open
 Eclipse with the code and your Console window, start recording & record yourself
 describing and running the program showing the results.
 - Your video should be a maximum of 5 minutes.
 - Upload your video with a public link.
 - <u>Easy way to Create a Public Video Link</u>: Upload your video recording to YouTube with a public link.
- 2. In addition, please include the following in your Coding Assignment Document:
 - The URL for this week's GitHub repository.
 - The URL of the public link of your video.
- 3. Save the Coding Assignment Document as a .pdf and do the following:
 - Push the .pdf to the GitHub repo for this week.
 - Upload the .pdf to the LMS in your Coding Assignment Submission.



Coding Steps — Object Oriented Programming:

- 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: Hello)
- **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.



Code Below:

```
//1.
       Create an interface named Logger.
public interface Logger {
              Add two void methods to the Logger interface,
       //2.
       //
                      each should take a String as an argument
       //
                      a.
                             Log
       //
                      b.
                             Error
       public void Log(String a);
       public void Error(String a);
//3.
       Create two classes that implement the Logger interface
                      AsteriskLogger
//
//
              b.
                      SpacedLogger
public class AsteriskLogger implements Logger {
       public void Log(String a) {
              /*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).
               */
              String 10g = "***" + a + "***";
              System.out.println(l0g);
       }
       public void Error(String a) {
              /*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:
                             ******
                             ***Error: Hello***
                             ******
              String 10g = "***Error: " + a + "***";
              StringBuilder format = new StringBuilder();
              for(int i = 0; i < l0g.length(); i++) {
                      format.append("*");
```



PROMINEO TECH

Intro to Java Week 5 Coding Assignment

```
System.out.println(format);
              System.out.println(l0g);
              System.out.println(format);
       }
}
//3.
       Create two classes that implement the Logger interface
                      AsteriskLogger
//
              a.
//
                      SpacedLogger
              b.
public class SpacedLogger implements Logger {
              The SpacedLogger should add spaces between each character
       //6.
                      of the String argument passed into its methods.
       //
       public void Log(String a) {
                      If the log method received "Hello" as an argument, it should print Hello
              StringBuilder 10g = new StringBuilder();
              int i = 0;
              while (i < a.length())
                      l0g.append(a.charAt(i));
                      l0g.append(" ");
              System.out.println(l0g);
       }
       public void Error(String a) {
              //8.
                      The error method should do the same, but with "ERROR:"
                             preceding the spaced out input (i.e. ERROR: Hello)
              StringBuilder 10g = new StringBuilder();
              int i = 0;
              while (i < a.length())
                      10g.append(a.charAt(i));
                      i ++;
                      l0g.append(" ");
              System.out.println("ERROR: " + 10g);
```



```
import java.util.Scanner;
public class App {
       public static void main(String[] args) {
              Scanner kb = new Scanner(System.in);
              System.out.println("Please enter a word or phrase: ");
              String ui = kb.nextLine();
              AsteriskLogger Log1 = new AsteriskLogger();
              SpacedLogger Log2 = new SpacedLogger();
              //String test = "Hello";
              Log1.Log(ui);
              System.out.println("\n");
              Log1.Error(ui);
              System.out.println("\n");
              Log2.Log(ui);
              System.out.println("\n");
              Log2.Error(ui);
       }
}
```

}