

URL to GitHub Repository: https://github.com/kymzaidi/Week-5-Coding-Assignment
URL to Public Link of your Video: https://youtu.be/yoAJX3kXdP4

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#### 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.

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## **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

```
package Week5CodingAssignment;
public interface Logger {
public void log(String log);
public void error(String 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)

```
package Week5CodingAssignment;
public class AsteriskLogger implements Logger {
@Override
public void log(String log) {
// TODO Auto-generated method stub
System.out.println("*** " + log + " ***");
}
@Override
public void error(String error) {
// TODO Auto-generated method stub
int boxLength = error.length() + 10;
System.out.println("*".repeat(boxLength));
System.out.println("*** ERROR: " + error + " ***");
System.out.println("*".repeat(boxLength));
package Week5CodingAssignment;
public class SpacedLogger implements Logger {
@Override
public void log(String log) {
// TODO Auto-generated method stub
StringBuilder sb = new StringBuilder();
```



```
for (int i = 0; i < log.length(); i++) {
    sb.append(log.charAt(i)).append(" ");
}
System.out.println(sb.toString().trim());
}
@Override
public void error(String error) {
    StringBuilder sb = new StringBuilder();
    for (int i = 0; i < error.length(); i++) {
        sb.append(error.charAt(i)).append(" ");
    }
System.out.println("ERROR: " + sb.toString().trim());
}</pre>
```

- **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.

```
package Week5CodingAssignment;
public class App {

public static void main(String[] args) {

// TODO Auto-generated method stub

Logger logger1 = new AsteriskLogger();

logger1.log("Hello");
```



```
logger1.error("Hello");
Logger logger2 = new SpacedLogger();
logger2.log("Hello");
logger2.error("Hello");
}
```

11. Test both methods on both instances, passing in Strings of your choice.

```
*** Hello ***

*********

*** ERROR: Hello ***

**********

H e l l o

ERROR: H e l l o
```