



# PROMINEO TECH

## Intro to Java Week 5 Coding Assignment

URL to GitHub Repository: <https://github.com/allebravo/Week5Java>

URL to Public Link of your Video: <https://youtu.be/0MisIIewMZU>

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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.
  - Easy way to Create a video: 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.
  - Easy way to Create a Public Video Link: 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.

```
1  
2 public interface Logger {  
3  
4  
5 }  
6
```

2. Add two void methods to the Logger interface, each should take a String as an argument

- a. Log
- b. Error

```
1  
2 public interface Logger {  
3     public void log (String str1);  
4     public void error(String str2);  
5  
6 }  
7
```

3. Create two classes that implement the Logger interface

- a. AsteriskLogger

```
1  
2 public class AsterikLogger implements Logger{  
3  
4 }  
5
```

- b. SpacedLogger

```
1  
2 public class SpacedLogger implements Logger {  
3  
4  
5  
6  
7 }
```



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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).

```
1
2 public class AsteriskLogger implements Logger{
3     public void log(String str1) {
4         System.out.println("***"+ str1 + "***");
5     }
6 }
```

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***
```

```
7 public void error(String str2) {
8     System.out.println("*****");
9     System.out.println("***Error: "+ str2 + "***");
10    System.out.println("*****");
11 }
```

6. The SpacedLogger should add spaces between each character of the String argument passed into its methods.

```
public void log(String str1) {
    for(int i =0; i< str1.length(); i++) {
        System.out.print(str1.charAt(i)+ " ");
    }
}
```

7. If the log method received “Hello” as an argument, it should print H e l l o



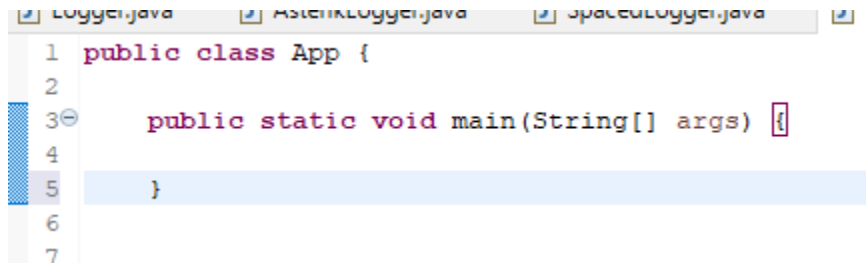
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8. The error method should do the same, but with "ERROR:" preceding the spaced out input (i.e. ERROR: H e l l o)

```
public void error(String str2) {  
    StringBuilder result = new StringBuilder();  
    for(int i =0; i< str2.length(); i++) {  
        result.append(str2.charAt(i)+ " ");  
    }  
    System.out.println("ERROR:"+ result.toString());  
}
```

9. Create a class named App that has a main method.



```
1 public class App {  
2  
3     public static void main(String[] args) {  
4  
5     }  
6  
7
```



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10. In this class instantiate an instance of each of your logger classes that implement the Logger interface.

```
public class App {  
    public static void main(String[] args) {  
  
        SpacedLogger object = new SpacedLogger();  
        System.out.println("Spaced Logger: log () ");  
        object.log("Hello");  
        object.log("Howdy");  
  
        System.out.println(" \nSpacedLogger: error () ");  
        object.error("Hello");  
        object.error("Howdy");  
  
        AsterikLogger object2 = new AsterikLogger();  
        System.out.println(" \n\nAstrisk Logger: log () ");  
        object2.log("Hello");  
        object2.log("Howdy");  
  
        System.out.println(" \n\nAstrisk Logger: error () ");  
        object2.error("Hello");  
        object2.error("Howdy");  
    }  
}
```

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

```
Console X Call Hierarchy  
<terminated> App [Java Application] C:\Users\aleja\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_  
Spaced Logger: log ()  
H e l l o H o w d y  
SpacedLogger: error ()  
ERROR:H e l l o  
ERROR:H o w d y  
  
Astrisk Logger: log ()  
***Hello***  
***Howdy***  
  
Astrisk Logger: error ()  
*****  
***Error: Hello***  
*****  
*****  
***Error: Howdy***  
*****
```