

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. Add the URL for this week's repository to this document where instructed and submit this document to your instructor when complete.

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:

Error: Hello

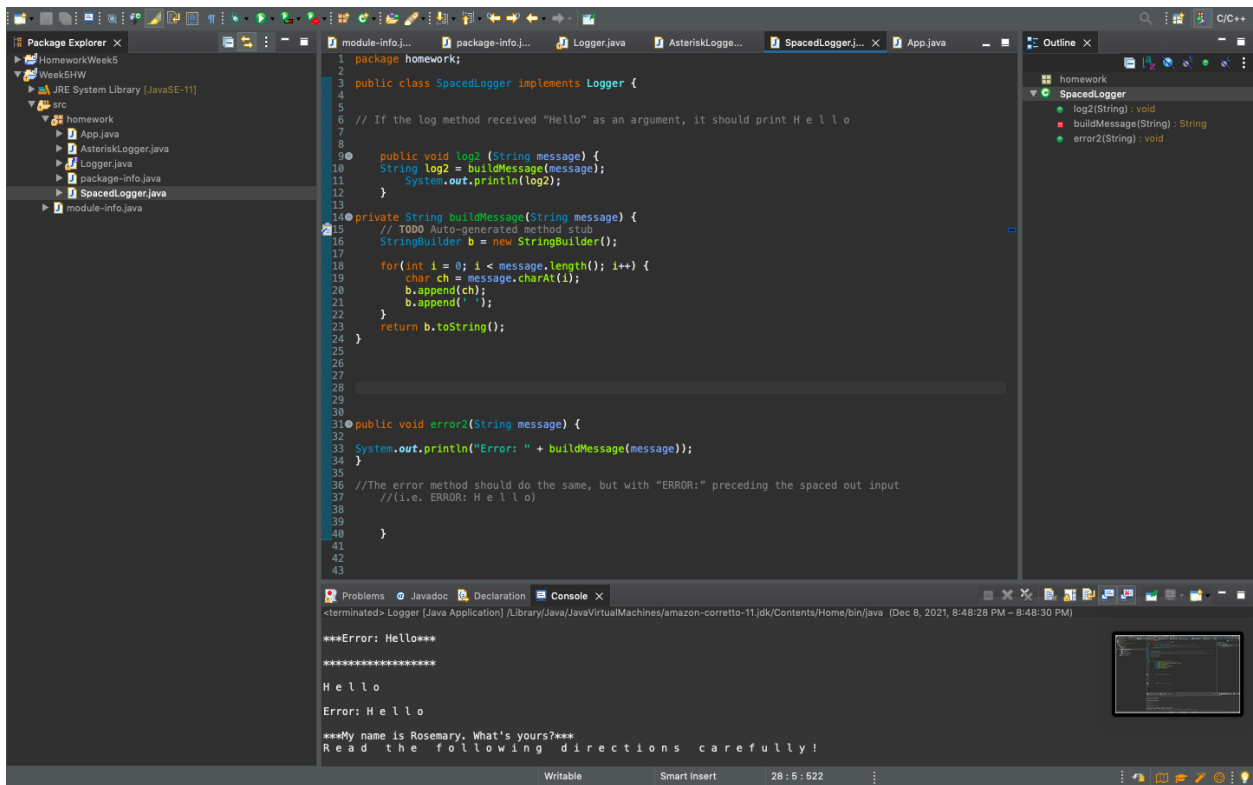
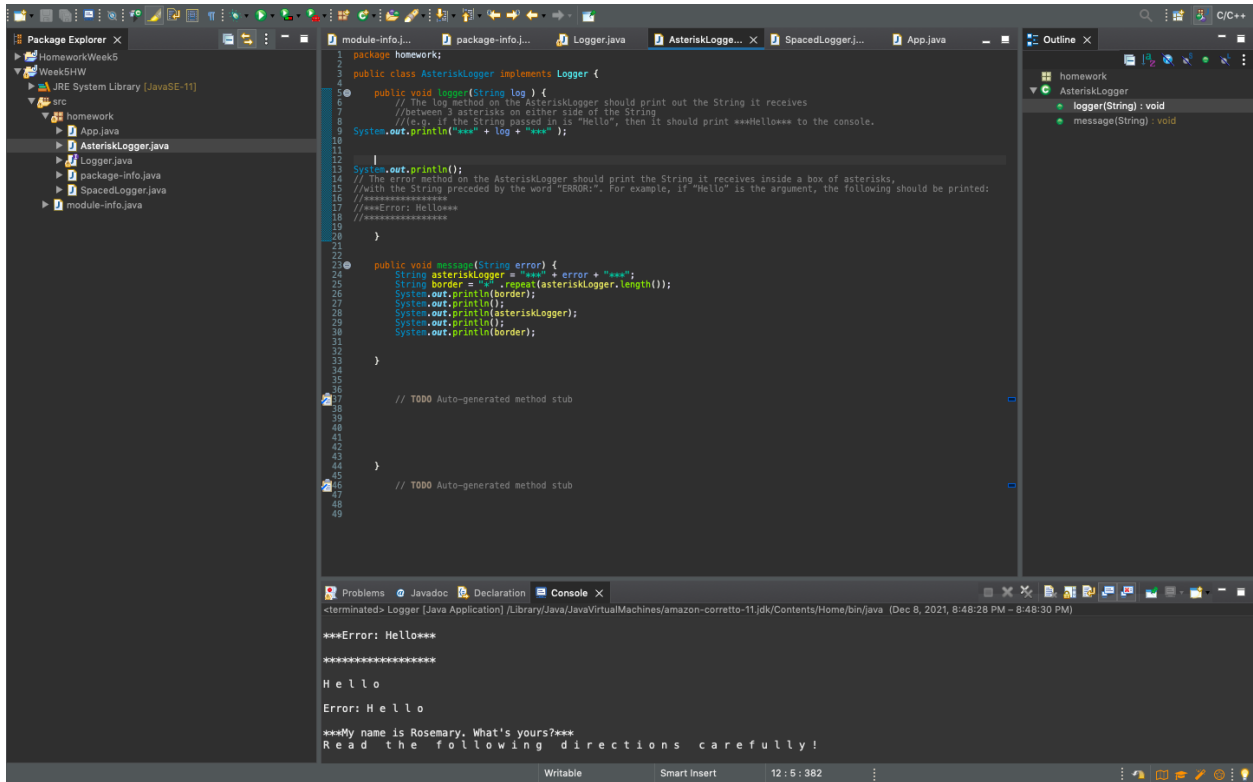
6. The SpacedLogger should add spaces between each character of the String argument passed into its methods.
7. If the log method received “Hello” as an argument, it should print H e l l o
8. The error method should do the same, but with “ERROR:” preceding the spaced out input (i.e. ERROR: H e l l o)
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:

Screenshots of Running Application:

URL to GitHub Repository:

<https://github.com/RosemaryLHorton/Week5Assignment>



```

1 package homework;
2
3 public class App implements Logger {
4
5
6
7
8
9
10
11
12     public void error3 (String message) {
13         String error3 = buildMessage(message);
14         System.out.println(error3);
15     }
16
17     private String buildMessage(String message) {
18         // TODO Auto-generated method stub
19         StringBuilder b = new StringBuilder();
20
21         for(int i = 0; i < message.length(); i++) {
22             char ch = message.charAt(i);
23             b.append(ch);
24             b.append(' ');
25         }
26         return b.toString();
27     }
28
29
30
31
32     public void log3 ( String message) {
33         System.out.println("***" + message + "***" );
34
35     }
36
37
38     {
39         // TODO Auto-generated method stub
40
41     }
42
43

```

Problems Javadoc Declaration Console X

<terminated> Logger [Java Application] /Library/Java/JavaVirtualMachines/amazon-corretto-11.jdk/Contents/Home/bin/java (Dec 8, 2021, 8:48:28 PM - 8:48:30 PM)

```

***Error: Hello***
*****
H e l l o
Error: H e l l o
***My name is Rosemary. What's yours?***
Read the following directions carefully!

```

