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:

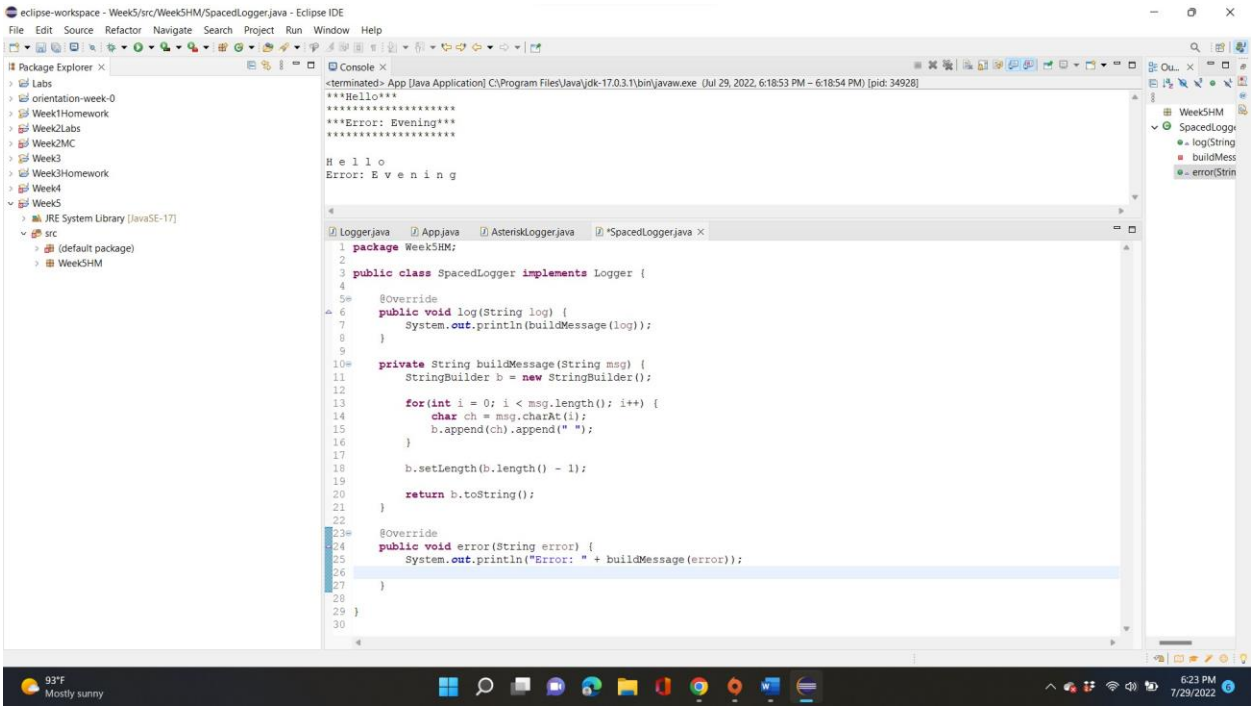
****

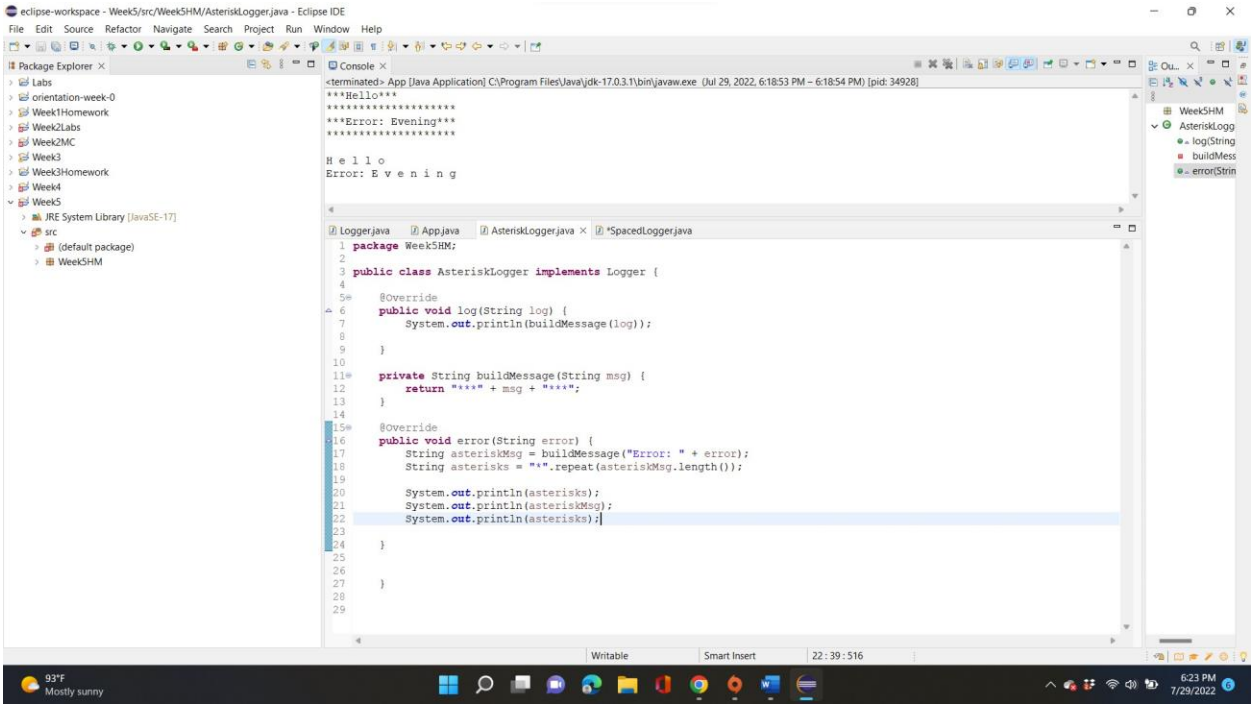
Error: Hello

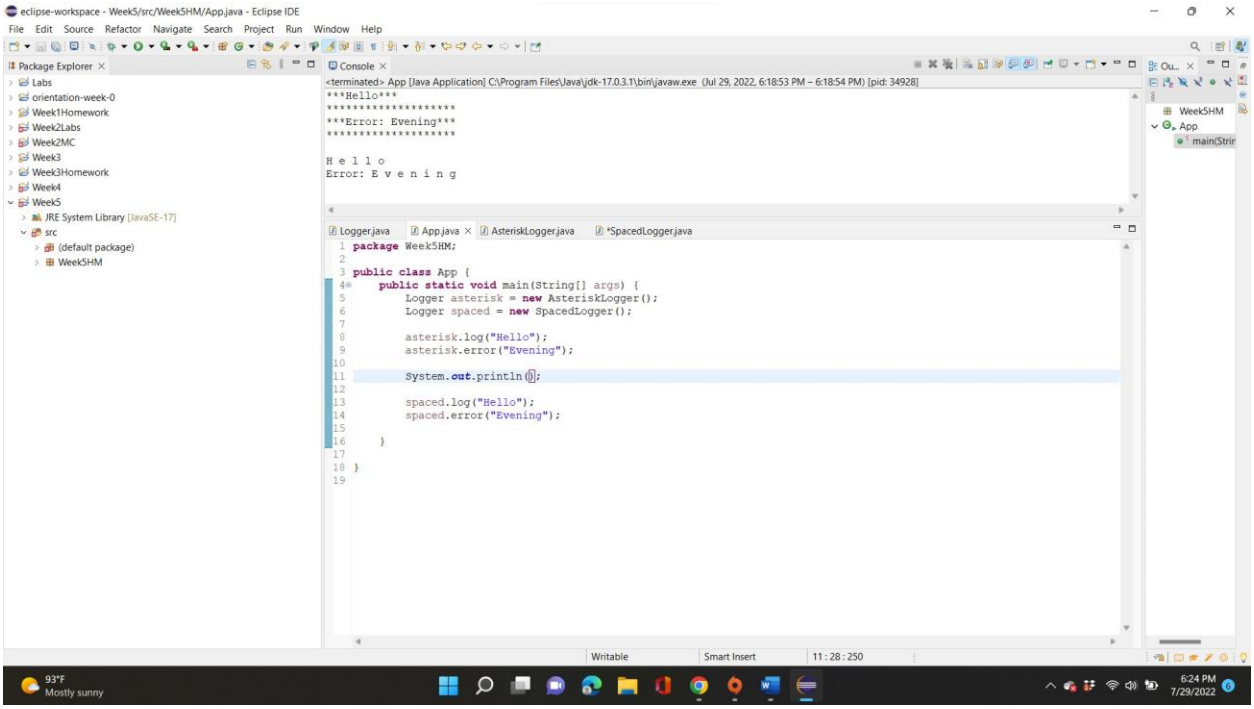
****

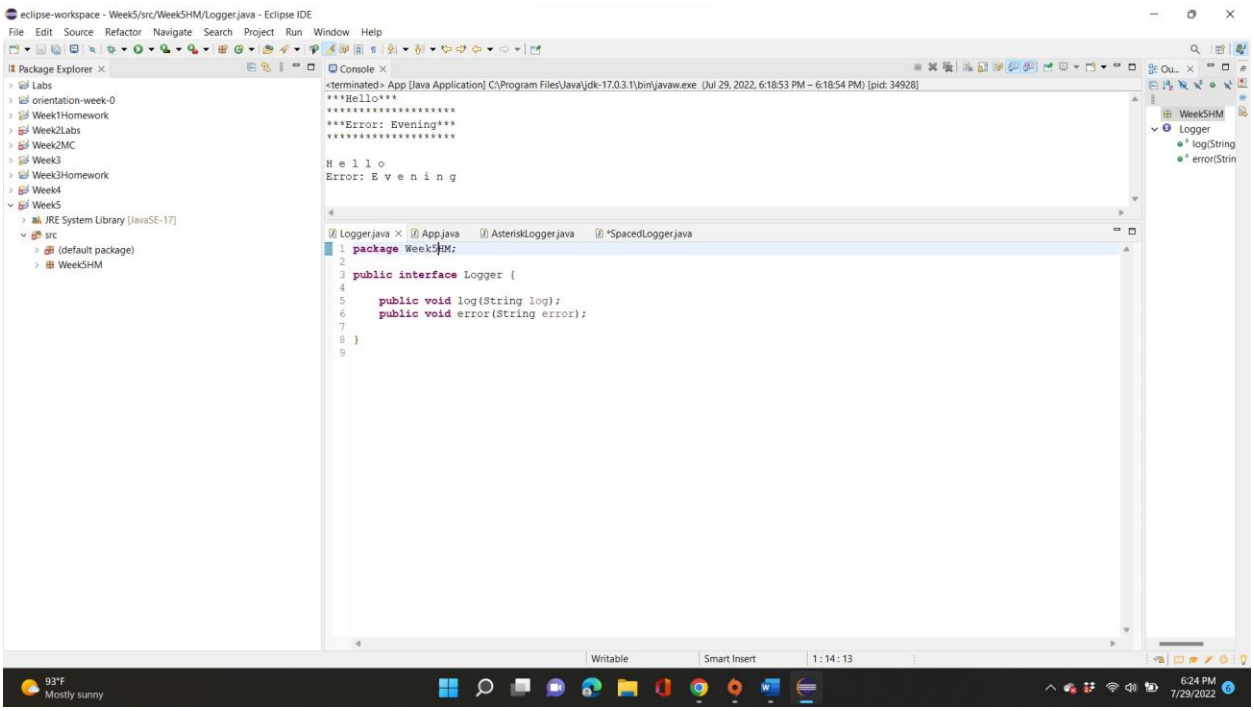
6. The SpacedLogger should add spaces between each character of the String argument passed into its methods.
7. If the log method received “Hello” as an argument, it should print H e l l o
8. The error method should do the same, but with “ERROR:” preceding the spaced out input (i.e. ERROR: H e l l o)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

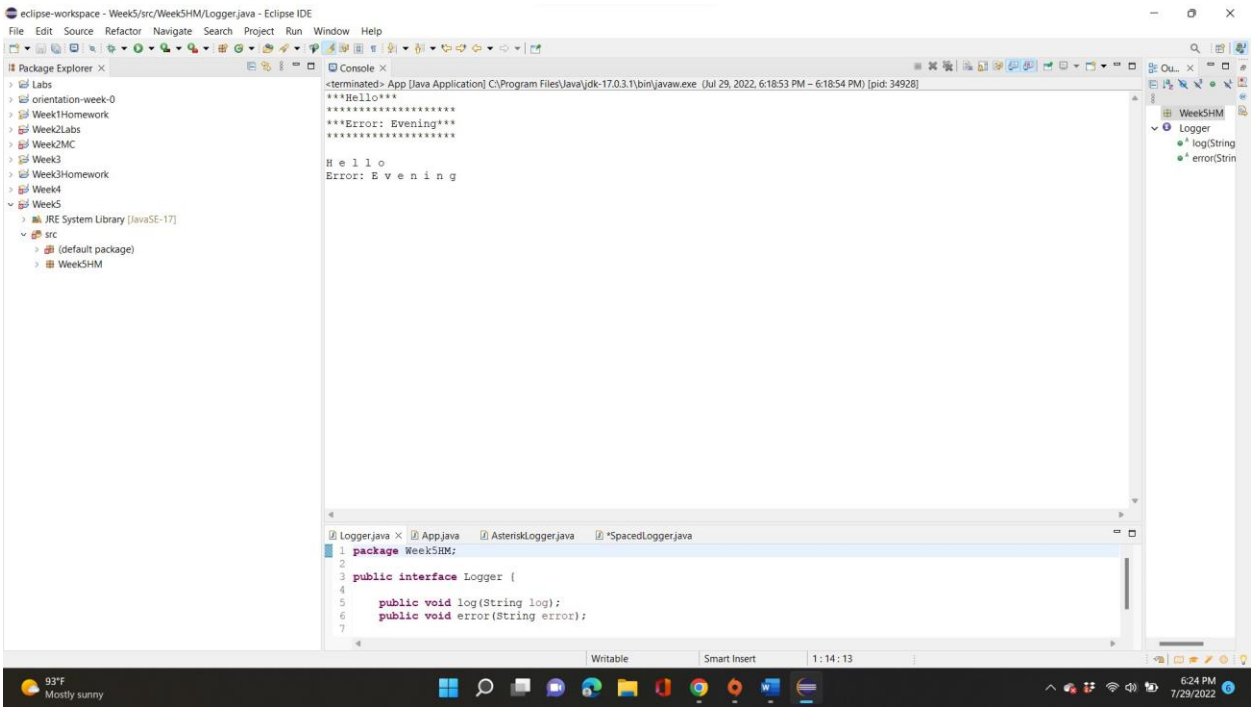



eclipse-workspace - Week5/src/Week5HM/AsteriskLogger.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer
Labs
orientation-week-0
Week1Homework
Week2Labs
Week2MC
Week3
Week3Homework
Week4
Week5
JRE System Library [JavaSE-17]
src
(default package)
Week5HM
Console
<terminated> App [Java Application] C:\Program Files\Java\jdk-17.0.3.1\bin\javaw.exe (Jul 29, 2022, 6:18:53 PM – 6:18:54 PM) [pid: 34928]
Hello
****
Error: Evening
****
H e l l o
Error: E v e n i n g
Logger.java
App.java
AsteriskLogger.java
*SpacedLogger.java
1 package Week5HM;
2
3 public class AsteriskLogger implements Logger {
4
5 @Override
6 public void log(String log) {
7 System.out.println(buildMessage(log));
8
9 }
10
11 private String buildMessage(String msg) {
12 return "***" + msg + "***";
13 }
14
15 @Override
16 public void error(String error) {
17 String asteriskMsg = buildMessage("Error: " + error);
18 String asterisks = "*".repeat(asteriskMsg.length());
19
20 System.out.println(asterisks);
21 System.out.println(asteriskMsg);
22 System.out.println(asterisks);
23
24 }
25
26
27 }
28
29
Writable
Smart Insert
22 : 39 : 516
Ou...
Week5HM
AsteriskLogg
log(String
buildMess
error(Strin
93°F
Mostly sunny
6:23 PM
7/29/2022


eclipse-workspace - Week5/src/Week5HM/App.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer
Labs
orientation-week-0
Week1Homework
Week2Labs
Week2MC
Week3
Week3Homework
Week4
Week5
JRE System Library [JavaSE-17]
src
(default package)
Week5HM
Console
<terminated> App [Java Application] C:\Program Files\Java\jdk-17.0.3.1\bin\javaw.exe (Jul 29, 2022, 6:18:53 PM – 6:18:54 PM) [pid: 34928]
Hello
****
Error: Evening
****
H e l l o
Error: E v e n i n g
Logger.java
App.java
AsteriskLogger.java
*SpacedLogger.java
1 package Week5HM;
2
3 public class App {
4 public static void main(String[] args) {
5 Logger asterisk = new AsteriskLogger();
6 Logger spaced = new SpacedLogger();
7
8 asterisk.log("Hello");
9 asterisk.error("Evening");
10
11 System.out.println();
12
13 spaced.log("Hello");
14 spaced.error("Evening");
15
16 }
17
18 }
19
Writable
Smart Insert
11 : 28 : 250
Ou...
Week5HM
App
main(Strin
93°F
Mostly sunny
6:24 PM
7/29/2022



Screenshots of Running Application:



URL to GitHub Repository:

https://github.com/leximay/Week5HW