

GitHub Repo: <https://github.com/olemeha/Homework-1>

Difficulties on Assignment:

The most difficult part of the assignment was to connect all the inheritances together so that they properly use the methods of the main classes. Also, I had some trouble with making the unit tests for each class and subclass because the comparison of the test and didn't match. However, when I added the `ByteArrayOutputStream`, which can be used to write similar code into many files, as well as `PrintStream`, which helped be to print out strings more easily and connect them to the `OutputStream` and have them reset for the next test.

```
17 private final ByteArrayOutputStream outContent = new ByteArrayOutputStream();
18 private final PrintStream originalOut = System.out;
19
20 @Before
21 public void setUpStreams() {
22     System.setOut(new PrintStream(outContent));
23 }
24
25 @After
26 public void restoreStreams() {
27     System.setOut(originalOut);
28 }
```

In addition, I had problems with implementing the junit Jupiter library into the gradle project. Everytime that I would refresh the gradle project, the junit5 would disappear which caused my tests to fail.

```
9 import java.io.PrintStream;
10
11 import org.junit.After;
12 import org.junit.Before;
13 import org.junit.jupiter.api.Test;
14
15 public class AppTests {
```

I am not very familiar with gradle but I follow all of the steps and it should be working.