Difficulties:

After the first programming assignment, I really began to understand how to complete the homework assignment and how to work with gradle. However, I there are parts of this assignment that I found to be difficult. Specifically, I had trouble with decoupling the button and lightbulb through a dependency inversion. I was confused on how to implement the inversion of dependency with the lightbulb and the button. I took me some time but I was able to fix this issue by creating an interface called "Switchable" which aided me in the inversion of dependency. In the Lighbulb class, I implemented the Switchable interface, which has only two functions of switchON() and switchOff(). Through this hierarchy I was able to successfully complete the inversion of dependency.

Completion Status: Complete

Code Statistics:

Lines of Code: 61

Line of Unit Test Code: 109 Unit Test Coverage: 100%

Source Code: https://github.com/olemeha/Oleksandr-Lemeha-PA-2

Answer to Ouestion in Part 3:

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No, we don't need to re-build the bulb because we have implemented inversion of dependency using <u>Switchable</u> Interface. In either case we change the Bulb or we change the Button we don't need to change the other component because they are not tightly coupled with each other.