Task 1:

In SImpleJavaCalculator (calculator.java) there are 3 Code Smells:

- **1. Long if chain** \rightarrow every time i add a new operation(like square root),I must modify this class.
- **3. Tight coupling** \rightarrow one class knows all operation details.
- 4. Hard to maintain or test

Problem because:

If chain: Huge block inside calculateBilmpl(),calculateMono() etc

Adding new type: Modify core logic

Maintainability: Poor

Task 2:

I choose Factory Design Pattern, composite and command Design pattern.

Factory Method Pattern — centralizes object creation logic.

Task 3:

I choose Factory Design Pattern, composite and command Design pattern. Because its all support the code to icnrease reusability, maintainability etc...