1) KISS (Keep It Simple, Stupid)

- *Bad*: A giant function, messy menu, extra "secret" option.

- *Good*: Straightforward menu and flow, only core operations.

2) DRY (Don't Repeat Yourself)

- *Bad*: Same input/compute/print logic repeated in multiple branches.

- *Good*: One `get_number()` function and one function per operation, no duplication.

3) Single Responsibility Principle

- *Bad*: `doIt()` handles everything including UI, logic, file writing.

- *Good*: Each function (math, input, menu, main) has a clear and single task.