

## Task 1: Calculator

### 1. About the program:

This is a simple calculator program implemented in Python. It defines four arithmetic functions (addition, subtraction, multiplication, and division) and a main function calculator () which provides a menu driven interface for performing these operations on two numbers. The program continues to prompt the user for input until the user chooses to exit.

### 2. Functionality:

- It presents a menu to the user with options for different arithmetic operations: addition, subtraction, multiplication, division, or exiting the calculator.
- Based on the user's choice, it takes two numerical inputs.
- It then performs the selected operation using the respective function (add, subtract, multiply, or divide).
- It displays the result of the operation to the user.
- It asks the user if they want to perform another operation. If the user chooses not to continue, the program exits.

### 3. Sample output of the program:

Simple Calculator

1. Addition
2. Subtraction
3. Multiplication
4. Division
5. Exit

Enter your choice (15): 1

Enter the first number: 10

Enter the second number: 5

Result:  $10 + 5 = 15$

Do you want to perform another operation? (yes/no): yes

Simple Calculator

1. Addition
2. Subtraction
3. Multiplication

4. Division

5. Exit

Enter your choice (15): 4

Enter the first number: 10

Enter the second number: 2

Result:  $10 / 2 = 5.0$

Do you want to perform another operation? (yes/no): no

Exiting the calculator.

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