

Project 01 | Command Line Calculator 1.1

This project is intended to practice working with variables, loops, reading input, and understanding control flow.

Spec

- A basic command-line calculator that supports five operations (+, -, *, /, :exit).
- Program Flow:
 - User is prompted to enter an operation from the list (+, -, *, /, :exit).
 - User is prompted to enter a number, and then a second number, and then print the output of that operation on those numbers.
 - Calculator return to initial state, and waits for the user to enter another operation. or :exit to quit the program.
- Notes:
 - When the user enters an operation (or ":exit") the program should verify that the user has entered something valid and re-prompt them if they do not do so.
 - Checking if the user has entered a number or not generally needs a try-except block, which will be discussed later, and is not required for this project.

Sample Output

```
● zach@overlord sfs % python3 projects/01_calculator/calculator_1.py
Welcome to the calculator!
Enter Operation (+, -, /, *) or ":exit" to quit:
hello
Invalid operation; please enter one of '+', '-', '/', '*':
+
You have selected: +
Please enter first operand:
1
Please enter second operand:
1
The result is: 2.0
Enter Operation (+, -, /, *) or ":exit" to quit:
-
You have selected: -
Please enter first operand:
5
Please enter second operand:
3
The result is: 2.0
Enter Operation (+, -, /, *) or ":exit" to quit:
*
You have selected: *
Please enter first operand:
2
Please enter second operand:
25
The result is: 50.0
Enter Operation (+, -, /, *) or ":exit" to quit:
/
You have selected: /
Please enter first operand:
1
Please enter second operand:
8
The result is: 0.125
Enter Operation (+, -, /, *) or ":exit" to quit:
:exit
Goodbye!
○ zach@overlord sfs %
```

Submission

- Name your Python program 01-1_calculator_<lastname>_<first-initial>.py; e.g. 01-1_calculator_campbell_z.py
- Compress the file into a zip of the same name, either from the finder or the command line.
- Email it to zacharyhcampbell@gmail.com