readme.md 1/20/2022

# s202018021\_04-02-ex3

Fu, Ziyu

### 1. Instruction to compile the code

After using the cd (change directory) command to navigate to the correct working directory, use these following commands to compile the code:

```
% gcc -Wall -c 04-02-SC-BasicFunctions.c
% gcc -Wall -c 04-02-SC-ExtraFunctions.c
% gcc -Wall -c 04-02-SC-Main.c
% gcc -Wall -o 04-02-SC-Go 04-02-SC-Main.o 04-02-SC-BasicFunctions.o 04-02-SC-ExtraFunctions.o
% ./04-02-SC-Go
```

#### 2. Brief review of the code

In order to extend the functionality of our simple calculator, we can add the logorithm and exponentiation logic to 04-02-SC-ExtraFunctions.c, and link the corresponding functions to 04-02-SC-Main.c through the header file 04-02-SC.h.

#### 3. Result of execution

```
% gcc -Wall -c 04-02-SC-BasicFunctions.c
% gcc -Wall -c 04-02-SC-ExtraFunctions.c
% gcc -Wall -c 04-02-SC-Main.c
% gcc -Wall -o 04-02-SC-Go 04-02-SC-Main.o 04-02-SC-BasicFunctions.o 04-
02-SC-ExtraFunctions.o
% ./04-02-SC-Go
1 + 5
1 + 5 = 6
2 * 1.5
2 * 1.5 = 3
9 log 3
9 \log 3 = 0.5
1 log 0
Invalid input! Logarithm result undefined.
1 \log 0 = 0
2 exp 3
2 \exp 3 = 8
2 exp 2.5
2 \exp 2.5 = 5.65685
```

## 4. Explanation for extra files

readme.md 1/20/2022

N/A