

# Operating System HW2 Programming Documentation

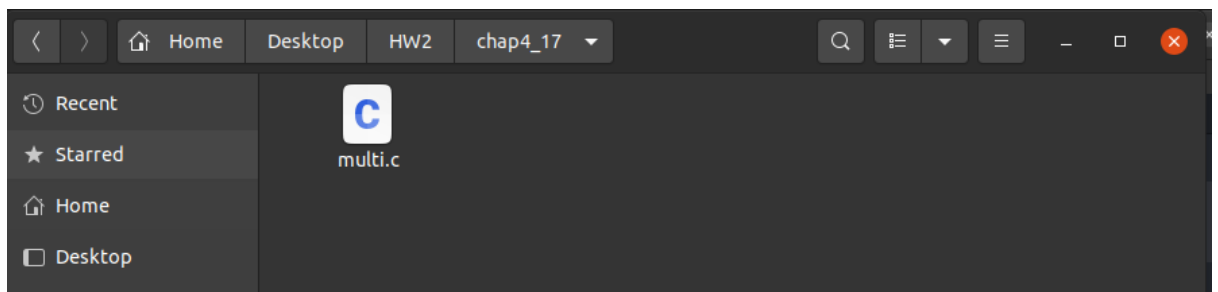
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## I. General Settings

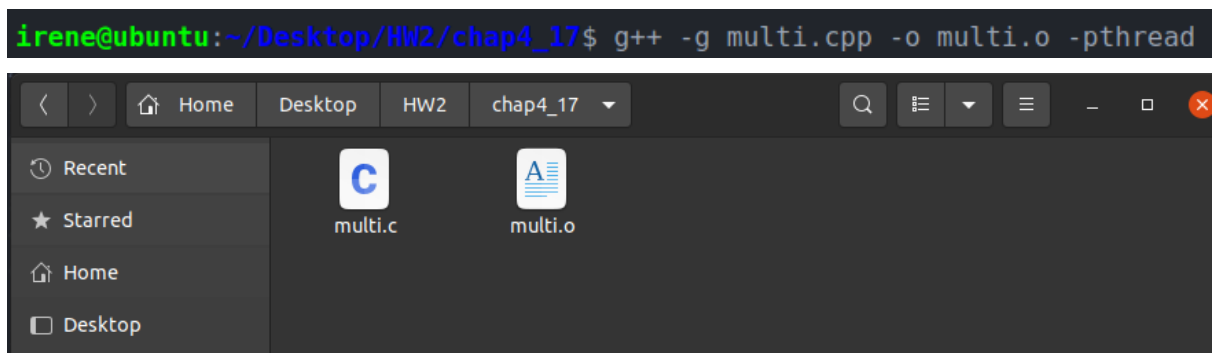
- Operating System: Linux
- IDE: Atom
- Terminal: platformio-ide-terminal
  - To install terminal:
    - File -> Settings
    - Click "+" (install)
    - Search for a terminal package called "platformio-ide-terminal"
    - Click "install".
    - Press "Control + ` " to toggle the terminal

## II. Chapter 4.17

1. Go to the Chap4\_17 folder and open the terminal on the folder or open the multi.c file using Atom and open the terminal there.



2. Enter `g++ -g multi.c -o multi.o -pthread` to generate an .o file if it doesn't exist in the folder. If an .o exists, enter `./multi.o` to run the program.



```
irene@ubuntu:~/Desktop/HW2/chap4_17$ ./multi.o
```

3. Then enter the positive number. (In the screenshot, I chose 7 as the positive number.)

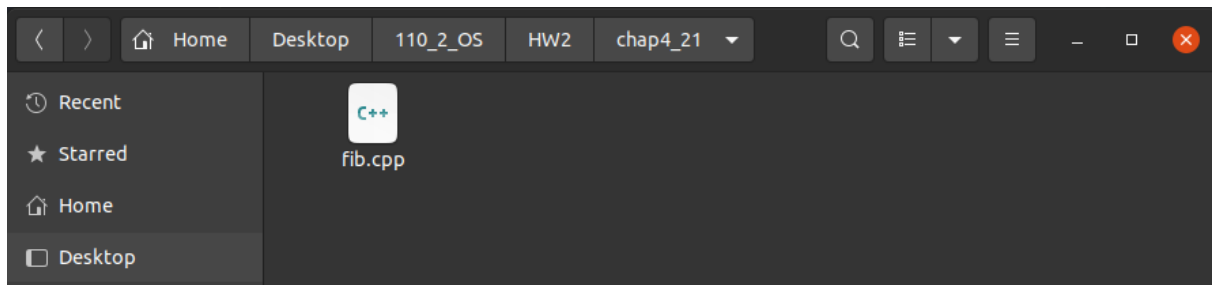
```
Please enter a positive number
7
```

Result:

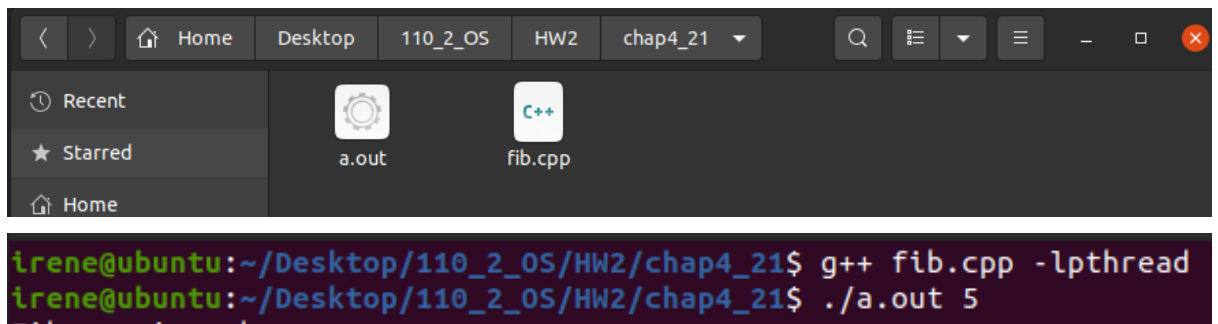
```
The approximate value of pi for the desired amount of points is: 2.857143
```

### III. Chapter 4.21

1. Go to the Chap4\_21 folder and open the terminal on the folder or open the fib.cpp file using Atom and open the terminal there.



2. Enter `g++ -g fib.cpp -lpthread` to generate an .out file if it doesn't exist in the folder. If an .out exists, enter `./a.out 5` to run the program.



3. Result:

```
Fibonacci numbers are...
0
1
1
2
3
```