

Assignment 1

Disclaimer: Submit your assignment in the form of a .zip / .rar file which contains C files as well as screenshots of commands used.

Deadline: Thursday, March 14th 2024.

- 1) Write and compile a program that will take numbers as parameters and sum them up. The program should skip negative numbers during the calculation process. (**Hint:** Explore the **atoi()** function).

Expected output:

```
nedim@OS-Lab-Ubuntu:~/Desktop$ ./calculator 5 10 -1 20
Sum is 35
```

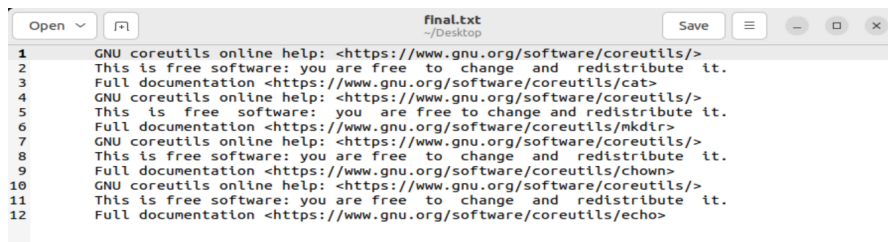
- 2) Write and compile a program that will take three numbers as arguments and will find the largest and the smallest number. Print an error message if the user enters more than three numbers. (**Hint:** Explore the **atoi()** function and the **argc** variable).

Expected output:

```
nedim@OS-Lab-Ubuntu:~/Desktop$ ./maximini 5 7 9 8
You can enter three numbers
nedim@OS-Lab-Ubuntu:~/Desktop$ ./maximini 21 110 67
Maximum value is 110
Minimum value is 21
```

- 3) Save the information about **cat**, **mkdir**, **chown** and **echo** commands from the Linux manual into a file named **assignment.txt**. Extract the lines from the text which contain the word “software” and save them into a file named **final.txt**.

Expected output:



```
1 GNU coreutils online help: <https://www.gnu.org/software/coreutils/>
2 This is free software: you are free to change and redistribute it.
3 Full documentation <https://www.gnu.org/software/coreutils/cat>
4 GNU coreutils online help: <https://www.gnu.org/software/coreutils/>
5 This is free software: you are free to change and redistribute it.
6 Full documentation <https://www.gnu.org/software/coreutils/mkdir>
7 GNU coreutils online help: <https://www.gnu.org/software/coreutils/>
8 This is free software: you are free to change and redistribute it.
9 Full documentation <https://www.gnu.org/software/coreutils/chown>
10 GNU coreutils online help: <https://www.gnu.org/software/coreutils/>
11 This is free software: you are free to change and redistribute it.
12 Full documentation <https://www.gnu.org/software/coreutils/echo>
```