

COEN 79L – Getting Started

Lab 1:

- Program 1: count the input characters.

In this program you will ask the user to enter some text. The user may input any combination of alphanumeric and non-alphanumeric characters.

Your program should count each category and tell the user how many of each they entered.

Example:

Please type something:

"Hello World" has 10 alphanumeric characters and 0 non-alphanumeric characters.

- Program 2: string of numbers and its reverse

In this program you will ask your user to enter a string 10 numbers with no space in between. You will print the numbers and its reverse according to the following example

Please type a string of 10 digits (0 to 9) with no space

```
0123456789    9876543210
0123456789    9876543210
0123456789    9876543210
0123456789    9876543210
0123456789    9876543210
```

- Program 3:

In this program, your program reads a text file and output erases all non-alphabetical characters and for all words larger than 10 characters, converts them to uppercase and prints on the screen (use: cout)

For example, if the file input contains:

1_counter.exe compiled successfully.

1_counter.exe got correct output.

Exit code: 0

2_pattern.exe compiled successfully.

2_pattern.exe got correct output.

Exit code: 0

3_convert.exe compiled successfully.

3_convert.exe got correct output.

Exit code: 1

Execution of your program

>./a.out input
will generate the following output on the screen

```
COUNTEREXE  
SUCCESSFULLY  
COUNTEREXE  
PATTERNEXE  
SUCCESSFULLY  
PATTERNEXE  
CONVERTEXE  
SUCCESSFULLY  
CONVERTEXE
```

- [Program 4](#)

Write a function that ask the user to think about a number between 1 and 20. Use successive guesses to find that number.

An output of the system can be the following:

- Think of a number between 1 and 20. Press enter when you are ready.
- Is the number 1? Y or N // if the user wrote anything but Y or N (y or n , yes or no is also acceptable), tell the user to only enter Y or N.
- Is the number 5? Y or N //if the user entered N
- I Found the number in <number> steps //if the user entered Y