# Lab Exercise 1

CSDC102: Intermediate Programming

# Before your codes...

```
// Filename :
// Date :
// Subject :
// Second Semester, SY 2019 - 2020
// Activity : Lab 1A
// Problem Title :
// Input :
// Output :
// Honor Code : *insert honor code here*
// Complete Name :
// ID Number :
// Year-Course : 1-BSCS
// DCS, College of Computer Studies
// Ateneo de Naga University
//*********************
```

Honor Code : This is my own program. I have not received any unauthorized help in completing this work. I have not copied from my classmate, friend, nor any unauthorized resource. I am well aware of the policies stipulated in the handbook regarding academic dishonesty.

If proven guilty, I won't be credited any points for

this exercise.

#### Program Description:

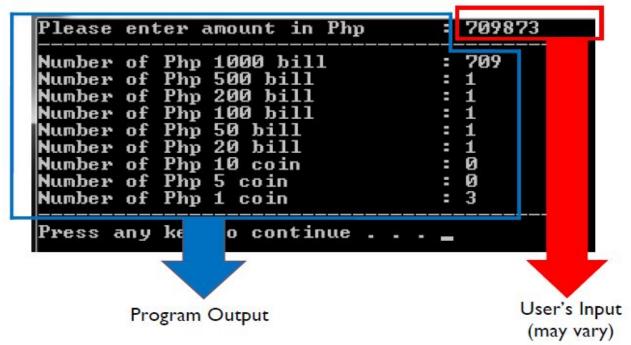
- Your task is to write a code that asks the user to enter amount in peso.
- You may assume the user will input a positive whole number
- The code then will output the number of Php1000 bill, Php500 bill, Php200 bill, Php100 bill, Php50 bill, Php20 bill, Php10 coin, Php5 coin and Php1 coin.
- Filename: Lab1A\_SURNAME.cpp

- Specifications:
  - Implement using Functions

The program output should look like this:

```
Please enter amount in Php
                                   709873
Number of Php 1000 bill
Number of Php 500 bill
Number of Php 200 bill
Number of Php 100 bill
Number of Php 50 bill
Number of Php 20 bill
Number of Php 10 coin
Number of Php 5 coin
Number of Php 1 coin
Press any key to continue . . . _
```

The program output should look like this:



# Lab 1B: Strings

### Program Description:

- Create a program that will accept a string LANGUAGE and string WORD from the user. Then, identify whether the WORD is a valid string from a LANGUAGE.
- If the WORD is valid, display WORD, Welcome Kalahi! . Otherwise,
   WORD, Ho u?!.
- Filename: Lab1B\_SURNAME.cpp

# Lab 2b: Strings

- Specifications:
  - Implement using Functions

# Lab 2b: Strings

The program output should look like this:

```
Command Prompt
C:\Users\DCS\Desktop>string
Enter a String Language:abcd
Enter a word:aaabbbb
aaabbbb, Welcome, Kalahi!
Enter a word again?(YIN):y
Enter a word again?(YIN):y
Enter a word again?(YIN):n
---- END-----
C:\Users\DCS\Desktop>
```

#### Program Description:

- Asks the user to enter the number of rows and the number of columns
- Display a table where each cell corresponds to the product of the row value and column value
- The first line should display a welcome message with the following format:
  - "Welcome to <Your First Name> 's Multiplication Table Creator!"

#### Specifications:

- The multiplication table must be stored in array of integers named
   mulTable which can hold a maximum of 100 integers in row and column.
- A void function named CreateMulTable which takes 3 parameters name\_Table of type int[100][100], row\_size\_mulTable of type int (from user input), and col\_size\_mulTable of type int (from user input). This function will create the multiplication table (row\_size\_mulTable x col\_size\_mulTable size) and store the results in name\_Table array.

#### Specifications:

A void function named print which takes takes 3 parameters name\_Table of type int[row][col], row\_size\_mulTable of type int (from user input), and col\_size\_mulTable of type int (from user input). This function display a row\_size\_mulTable x col\_size\_mulTable size multiplication table in the screen.

The program output should look like this:

```
WELCOME TO RONNEL'S MULTIPLICATION TABLE CREATOR!
Please enter the size of the table (row x column): 5 x 10
                         5
                               6
                                                      10
    1 2 3 4
2 4 6 8
3 6 9 12
4 8 12 16
5 10 15 20
                         5
                                                      10
                        10 12
                                                      20
                         15 18
                                    21 24
                                                27
                                                      30
                                                36
                         20
                                    28
                                                      40
             15 20 25
                                    35
                                                45
                                                      50
                             30
                                          40
```

Note: The text in white are program's output while the text in red are user's input.

Tip: The "x" in "5 x 5" is merely a display. All you'll have to do is declare a variable for it, accept a value from user for it, and nothing more.

Sample output with +10 bonus points

```
WELCOME TO RONNEL'S MULTIPLICATION TABLE CREATOR!
Please enter the size of the table (row x column):
                                                            10
                       16 I
```

Note: No matter what the size of the table is, the format should still be well-organized and structured.