COP2221 – Intermediate C++ Programming
Module #11 Assignment One
10 points

This assignment refers to the following course learning outcomes:
- Using the numeric conversion functions
- Using C-strings
- Using the string Class in C++

Programming Problem

You will write a program to find the sum of the digits in a string. Ask the user to enter a series of single digit numbers with nothing separating them. Read the input as a C-string. The program should display the sum of all the single-digit numbers in the string. For example, if the user enters 2514, the program should display 12 (sum of 2+5+1+4).

As you work thru the C-string, treat any non-numeric characters as zero. No functions are required – just be sure the user knows what to enter. You can write a function main( ) to perform the program task.

NOTE: before coding – design your program. **If you need assistance, I will need to see your design** (it can be brief – just to show you have thought about the coding relationships) **and I will only help with one function at a time**. You need to develop a planning and coding technique for yourself that keeps you on track and uses the power of building your program in steps/modules.

Grading Rubric

10 points – well documented, compiles and executes perfectly

8 points – lack of documentation, compiles and executes with a minor (or two) error(s)

6 points - lack of documentation, compiles and executes with a minor (or two) error(s), not all needed tasks are correct or included (missing some functionality)

5 and fewer points – doesn't compile, lack of functionality to solve the programming problem, poor programming style

0 points – no submission