Homework 3 (*Due: May 31*) C++ Programming - COSC 2321

Department of Computer Science and Electrical Engineering
Summer Session I, 2022

Exercises

Create a **New Project** for every exercise. Take a screenshot of the source code along with its output and place the **source code** and the **screenshot** in a **zipped folder** named **LastNameFirstName_HW3**

Exercise 1

In **main**, create an empty **int vector**. Using a *standard* **for** loop, ask user to enter 3 values into the **vector**. Then, ask user if they wish to add more numbers into the **vector**. If Y/y, then ask user what is the size of the expanded **vector** and call **myFunction** and pass as parameters: **vector**, **initial size of vector**, **expanded size of vector**. In **myFunction** add numerals to the expanded vector and *return* to **main** the **vector**. Print the entire **vector** from within **main** using a *range-based* **for** loop

Exercise 2

In **main**, create two empty **vectors** of *string* data type. Using a *standard* **for** loop, that runs for 3 times, enter first names into both **vectors** (in total 6 first names). Using another *standard* **for** loop test whether the respective names, from the two vectors, are equal or not using a function **MACRO**. If they are equal print **Equal**, if not, print **Unequal**

Exercise 3

Ask user to enter a phrase or a sentence and store it into a **string** data type variable. Define and initialize a **char** pointer to point to the first element of the **string**, that is, **char* ptr** = **&phrase[0]**;. Get the size of the phrase entered using the function length, that is, **phrase.length()**;. Using a loop and the **pointer** count the number of words in the phrase entered

Note: Submit through Canvas