Lab 14 *(Due: Jun 15)*
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_Lab14***

Exercise 1

Create a *Class* named **Student** with private members an *int ID* and *string name*. Create a **dynamically allocated array** of *three objects*. Use *setter and getter functions* to assign and retrieve data along with the use of **arrow operator** (->). Perform **chain function calls** to call setter functions

Exercise 2

Given the code below, create two different *Classes* and assign values to the *int* private members. Create a function named **sum** that is independent of any *Class*

```cpp
int main()
{
    A a(10);
    B b(20);
    cout << "Sum : " << sum(a, b) << endl;
    return 0;
}
```

Note: Make use of a **friend** function

Exercise 3

Similarly to Ex. 2, consider **sum** being a member function of *Class B*. Make **friend** only the **sum** function from *Class B*

Note: Submit through **Canvas**