

Lab 6 (Due: May 26)

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_Lab6**

Exercise 1

Ask user to enter two numbers. Use a **pointer** to point to the first number. Using the pointer, add 5 to the first number. Now, point the same pointer to the second number and change second number's value -using a pointer- to 30. Add the two numbers and print the result. In addition, print the address of the first number, the address of the second number, the address the pointer points to, and the address of the pointer variable itself

Exercise 2

Create a **vector** and initialize it with the following four numbers: 10, 20, 30, 40. Print the vector using a **range-based for** loop. Then, modify the elements of the vector to: 1, 2, 3, 4 using a second **range-based for** loop. Finally, print the contents of the vector using a third **range-based for** loop

Note: Make use of the **auto** keyword in all **for** loops

Exercise 3

Create a **vector** named *names* (of *string* type). Ask user to enter 3 names into it using a standard **for** loop. Remove the last element of the vector. Add one element to the vector. Display the values of the first and last elements of the vector. Declare a second vector and initialize it with the values of the *names* vector. Print the contents of the second vector using a **range-based for** loop

Note: Submit through **Canvas**