

## SCS 1209 - Object Oriented Programming Tutorial 04

## Write C++ programs for following tasks.

- 1. Write a C++ program to print the sum of the first n Natural Numbers.
- 2. Write a C++ program to display the Multiplication table up to 10.
- 3. Write a C++ program to print half pyramid using '\*'.

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4. Write a C++ program to print half pyramid using numbers.

1 1 2 1 2 3 1 2 3 4 1 2 3 4 5

## **C++ Class and Objects**

- 1. Write a C++ program to create a Car class with some attributes (brand, model, year)
- 2. Write a C++ program to calculate the area and volume of a room. (hint: use "room" as class and its object as "room1".)
- 3. Create a class that imitates part of the functionality of the basic data type *int*. Call the class *Int* (note different capitalization). The only data in this class is an *int* variable. Include member functions to initialize an *Int* to 0, to initialize it to an *int* value, to display it (it looks just like an *int*), and to add two *Int* values. Write a program that exercises this class by creating one uninitialized and two initialized *Int* values, adding the two initialized values and placing the response in the uninitialized value, and then displaying this result.