## Today's Agenda: REVISION OF BASIC PROGRAMMING CONCEPTS

## Objectives:

- Revision of functions for outputting to the screen and taking input from the user in C
- Purpose of Preprocessor Directives
- Using the header files
- Revision of the compilation process of a program
- Transitioning from a program C to a C++ program
- Main function as the entry point of the program
- Abstaining from using an IDE
- Getting to know open source compilers such as GCC
- Concept of namespace in C++ and other high level programming languages
- Using the cout and cin objects for outputting and taking input in C++

## Lab Tasks:

- 1. Write a C++ program to display "Asalam Alykum!" on the screen.
- 2. Write a C++ program to display Your Name, Address and City on different lines
- 3. Write a C++ program to find the area of a circle using the formula:

Area = 
$$PI * r2$$

4. Write a C++ program to find the area and volume of sphere.

Formulas are: Area = 4\*PI\*R\*R Volume = 4/3\*PI\*R\*R\*R.

- 5. Write a C++ program to print the multiply value of two accepted numbers
- 6. Write a C++ program to convert centigrade into Fahrenheit.

Formula: C = (F-32)/1.8.

- 7. Write a C++ program that declares 5 integers, determines and prints the largest and smallest in the group.
- 8. Write a C++ program that declares two integers, determines whether the first is a multiple of the second and print the result. [Hint: Use the remainder operator.]

## P.S.: Code should be properly indented and commented