

## Benha University Faculty of Engineering Electrical Engineering Department

## Semester **0** (1<sup>st</sup> year) Computer Programming (a) - E1123 Fall Semester 2022- 2023



## Lab. (3) C++ Fundamental Operations

## Answer the following questions

- 1) Write a program in C++ to print a welcome text in a separate line.
- 2) Write a program in C++ to print the sum of two numbers.
- 3) Write a program in C++ to find Size of fundamental data types.

Using function sizeof(used data types)

- 4) Write a program in C++ to print the sum of two numbers using variables.
- 5) Write a program in C++ to display various type or arithmetic operation using mixed data type. Such as:

$$5 + 7 = 12$$
.  $3.7 + 8.0 = 11.7$ 

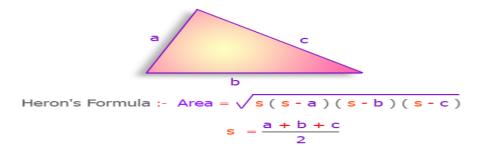
$$5 + 8.0 = 13.0$$
.  $5 - 7 = -2$ 

- 6) Write a program in C++ to display the operation of pre and post increment and decrement.
- 7) Write a program in C++ to print the result of the specified operations.

- 8) Write a program in C++ to add two numbers accept through keyboard.
- 9) Write a program in C++ to swap two numbers.
- 10) Write a program in C++ to calculate the volume of a sphere.
- 11) Write a program in C++ to calculate the volume of a cube.
- 12) Write a program in C++ to find the Area and Perimeter of a Rectangle.

- 13) Write a program in C++ to find the area and circumference of a circle
- 14) Write a program in C++ to convert temperature in Celsius to Fahrenheit.
- 15) Write a program in C++ that converts kilometers per hour to miles per hour.
- 16) Write a program in C++ to compute quotient and remainder.
- 17) Write a program in C++ to compute the total and average of four numbers.
- 18) Write a program in C++ to check whether a number is positive, negative or zero.
- 19) Write a program in C++ to divide two numbers and print on the screen.
- 20) Write a program in C++ to compute the specified expressions and print the output.

- 21) Write a language program in C++ which accepts the user's first and last name and print them in reverse order with a space between them.
- 22) Write a program in C++ to find the area of any triangle using Heron's Formula.



23) Write a program in C++ which swap the values of two variables not using third variable.