

## BSc.IT. 3<sup>rd</sup> Sem

### Object Oriented Programming (304) Assignment-1

1. Write a C++ program to find the Area and Perimeter of a Rectangle.
2. Write a C++ program to convert temperature in Celsius to Fahrenheit.
3. Write a C++ program to compute quotient and remainder.
4. Write a C++ program to check whether a number is positive, negative or zero.
5. Write a C++ program to print the code (ASCII code) of a given character.
6. Write a C++ program to swap two numbers.
7. Write a C++ program to read an integer n and prints the factorial of n, assume that  $n \leq 10$ .
8. Write a C++ program to compute the sum of the specified number of Prime numbers.  
For example when  $n = 7$ ,  
 $s = 2 + 3 + 5 + 7 + 11 + 13 + 17 = 58$ .
9. Write a C++ program to find the sum of first 10 natural numbers.
10. Write a C++ program to display the number in reverse order.
11. Write a C++ program to count all the vowels in a given string.
12. Write a C++ program to find the sum and average of one dimensional integer array. solution
13. Write a C++ program to swap first and last element of an integer 1-d array. solution
14. Write a C++ program to reverse the element of an integer 1-D array. solution
15. Write a C++ program to find the largest and smallest element of an array. solution
16. Write a menu driven C++ program with following option
  - a. Accept elements of an array
  - b. Display elements of an array
  - c. Sort the array using insertion sort method
  - d. Sort the array using selection sort method
  - e. Sort the array using bubble sort methodWrite C++ functions for all options. The functions should have two parameters name of the array and number of elements in the array. solution