## 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  $n \le 10$ .
- 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 method

Write C++ functions for all options. The functions should have two parameters name of the array and number of elements in the array. solution