# C- Programming

# Assignment

Basic (Write C program and Design Flow Chart)

1. Area of Triangle when its 3 Sides are given.
2. Largest of the three numbers (**a,b,c**).
3. Compute the factorial of the given number.
4. Find the roots of the quadratic equation **ax2 + bx + c**.
5. Reverse a given integer number.
6. Print Star on the console using loop.
7. Program to arrange a set of floating point numbers in an ascending order and print them [Bubble Sort], [Merge Sort - Recursion].
8. Accept 2 Matrices of the same order [2-Dimension Array] and find the sum, product of the corresponding elements of these matrices and print them.
9. C Program to accept the roll number, name and marks obtained in three test of three students of a class and display the roll number, name, marks of three test and their average. [Data Structure]
10. C program to accept a list of N numbers of students with their names and roll no and arrange them in alphabetical order [Data Structure].
11. C program to accept two one-dimensional array and find the sum of the corresponding elements and store the sum in the third array. Finally it should print the resultant array. Use the dynamic Memory Allocation function malloc().
12. Write a C program to open a file named f2.c for reading and it should print the number of alphabets, digits and special characters present in f2.c.

# Advance:

1. Write a program to simulate a simple calculator to perform arithmetic operations like addition, subtraction, multiplication and division only on integers.
2. Write a C program to generate and print first N FIBONACCI numbers.
3. Write C program to find GCD and LCM of two integers output the result along with the given integers. Use Euclid’s algorithm.
4. Write a C program to read students data and marks of 3 subjects [English, Math’s, and Hindi] from a file. File can have any number of records memory should be allocated dynamically depending on the number of records present in file.
5. Write a C program to create a **Linked List,** write function to **Insert Node, Delete Node and Sort All Nodes**.
6. Write a C program to create Stack, write function to **PUSH, POP and List Elements**.
7. Write a C program to implement Queue, write function to **ENQ, DEQ and List Elements**.