**1- Sorting Algorithm**

1. Selection Sort
2. Bubble Sort
3. Insertion Sort
4. Merge Sort
5. Quick Sort
6. Linear Search
7. Binary Search and Binary Search explanation
8. Recursive approach of binary search\*

**2- Array**

1. Sort An arrays containing 0s, 1s and 2s.
2. Find maximum sum subarray-Kadane’s algorithm **same** find the maximum element in each of the contiguous array.
3. Find maximum element in array
4. Write a program to rotate elements of an array to the left by a given number of positions.
5. They gave me an array code to print the last element\*
6. Find array duplicate values.
7. Write a program to find kth smallest element in array.

**3- Linked List**

1. Write code for reversal of linked list\*
2. Find the middle element of a linked list\*
3. Detect loop in linked list\*

**4- String**

1. **Coding a solution to reverse a string without using a third variable (using two pointers) \***
2. Write the program for reverse a string
3. Reverse a sentence program **same** Reverse words in string
4. Code to find vowel in your name.
5. Write code for counting different characters in string\*
6. Count the number of occurrence of a character in string and How to count the elements of a String?
7. Find the world in the given sentence.

**5 – Python**

1. Simple pyramid pattern
2. Diamond Shaped Pattern
3. Write code for multiplying and diving a number with 2 without using arithmetic operator
4. Write a code to swap variable without using the third variable\*
5. Prime number \*
6. Fibonacci Series and Fibonacci Code Using Different Approach\*
7. Palindrome and the logic of palindrome and a number is Palindrome\*
8. Armstrong Number\*
9. WAP to find square root of a number \*\*
10. Reverse of a number
11. Factorial

**6- Stack and Queue**

1. Find the next greatest element using stack.
2. Implement stack using array and Queue using array