ACADEMY OF TECHNOLOGY
Lab Assignment (Day 2)
Paper name: Design and Analysis of Algorithms Lab
Code: PCC-CS494   **Semester: 4th**
Discipline: CSE   **Time: 2 Hours**
Date: February 28, 2023

1. Write a program in C or C++ to find the sum of digits of a number using recursion.

2. Write a program in C or C++ to Check whether a given Number is Palindrome or not using recursion.

3. Write a program in C or C++ to find GCD of two numbers using recursion.

4. Write a program in C or C++ to find the largest element of an array using recursion.

5. Write a program in C or C++ to convert a decimal number to binary using recursion.

6. Write a program in C or C++ to check a number is a prime number or not using recursion.

7. Write a program in C or C++ for binary search using recursion.

8. Write a program in C or C++ to implement Tower of Hanoi.