



ACADEMY OF TECHNOLOGY

Lab Assignment (Day 2)

Paper name: Design and Analysis of Algorithms Lab
Code: PCC-CS494
Discipline: CSE

Semester: 4th
Time: 2 Hours

Date: April 22, 2021

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.