CS6104 - Data Structures and Algorithms

Batch – 'N'

Week 1

31-08-2023

Basic C - programming

1. Write a C program to find the largest of 3 integers.
2. Write a C program to reverse a number.
3. Write a C program to check if a given number is an Armstrong number.
4. Write a C program to find the factorial of the given number.
5. Write a C program to implement a mini-calculator with 5 functions.

C programming using arrays

Write a C program to
6. Generate a series of prime numbers and store in an array.
7. Find the sum, average, minimum and maximum of n integers stored in an array.
8. Sort a set of integers stored in an array.
9. Find the number of odd numbers and even numbers in an array of numbers.
10. Compare two strings.

For the Beginners

Write a C program to
1. Display a string.
2. Add two numbers
3. Divide a number by another
4. Find the largest to two numbers
5. Find the largest of three numbers
6. Find the largest of n numbers
7. Find if a given number is odd or even
8. Reverse a number
9. Implement a mini-calculator
10. Display the Fibonacci series