**C# Programs**

**Data Types, Control Statements, Arrays**

1. C# Program to Find the LCM of 3 and 5 and sum of all the multiples of 3 and 5 till LCM.
2. C# Program to Find Sum of Digits of a given positive integer.
3. C# Program to Find the given positive integer is a palindrome or not without using strings.
4. C# Program to sum Two Binary Numbers.
5. An **Armstrong number** is a number that is equal to the sum of its own digits each raised to the power of the number of digits.

Write a program to print Armstrong Number between 1 to 1000

1. **A perfect number** is a positive integer that is equal to the sum of its proper divisors.

Write C# Program to check whether the entered number is a perfect number or not.

1. **Amicable numbers** are two numbers so related that the sum of the proper divisors of the one is equal to the other.

Write C# Program Checks Whether the Entered Numbers are Amicable Numbers or Not.

1. Find the Sum of two complex Numbers:

Sample Input: 2+3i , 5+2i

1. This C# Program Checks Whether the Entered Year is a Leap Year or Not.
2. Write a C# Program to Convert Binary to Decimal.
3. This C# Program Calculates Compound Interest for a given Principle, number of years and rate of interest per year. Need to adjust the principle for every quarter.
4. Write a C# program to calculate nCr.
5. Find the average marks of a class of 5 students where each student has 4 subjects. In the exam, some of the subjects are optional. In that case do not consider those subject marks in calculation.
6. C# Program to Copy a Section of One Array to Another.
   1. Using Array function
   2. Without using Array Function.
      1. Write a function ArrayCopy(sourceAray,srcStarting,destStarting,elmCount)

Sample Input:

Values Of First Array: 1 2 3 4 5 6

Values of second array: 23 45 67 89 12

1. C# Program to Multiply Two Matrices.
2. Convert a string to ‘Title Case String’.