

C# Operators – Basic Programming

- An **operator** is a **symbol** that tells the compiler to perform specific **mathematical** or **logical manipulations**.
- Operators are used for building expressions in C#. To calculate the value of a variable or performs the operation in the variable you will have to make a proper expression.
- C# provides wide range of operators as:
 - Arithmetic Operators
 - Assignment Operators
 - Unary Operators
 - Comparison Operators
 - Logical Operators

C# Arithmetic Operators

Operators are a very useful thing in computing value. While writing a program, you need various types of operators to calculate the value.

The C# arithmetic operator performs the basic calculation as add, subtraction, multiplication, division, and modulus.

Arithmetic Operators are used for basic mathematical calculation in C# programming.

ARITHMETIC OPERATORS:

Operator	Description	Examples
+	Add numbers	X=num1+num2
-	Subtract numbers	X=num1-num2
*	Multiply numbers	X=num1*num2

/	Divide numbers	X=num1/num2
%	Divide two numbers and returns remainder	X=22%10 then X will be X=2

Sample Program

```

. using System;
. using System.Collections.Generic;
. using System.Linq;
. using System.Text;
.
. namespace Arithmetic_Operators
. {
.     class Program
.     {
.         static void Main(string[] args)
.         {
.             int num1, num2;
.             int add, sub, mul;
.             float div;
.
.             //Accepting Values from users
.             Console.Write("Enter first number\t\t");
.             num1 = Convert.ToInt32(Console.ReadLine());
.
.             Console.Write("\n\nEnter second number\t\t");
.             num2 = Convert.ToInt32(Console.ReadLine());
.
.             //Processing Values
.             //Used + operator for adding values
.             add = num1 + num2;

```

```

.      //Used - operator for subtracting values
.      sub = num1 - num2;
.      //Used * operator for multiplying values
.      mul = num1 * num2;
.      //Used / operator for dividing values
.      div = (float)num1 / num2;
.
.      //Displaying Output
.      Console.WriteLine("\n\n===== \n");
.      Console.WriteLine("Addition\t\t{0}", add);
.      Console.WriteLine("Subtraction\t\t{0}", sub);
.      Console.WriteLine("Multiplication\t\t{0}", mul);
.      Console.WriteLine("Division\t\t{0}", div);
.      Console.WriteLine("\n\n===== \n");
.
.      Console.ReadLine();
.    }
.  }
. }

```

Output

```

Enter first number   15
Enter second number  12
=====
Addition    27
Subtraction  3
Multiplication  180
Division    1.25
=====
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```