

C# - ARITHMATIC OPERATORS

Following table shows all the arithmetic operators supported by C#. Assume variable **A** holds 10 and variable **B** holds 20, then:

Operator	Description	Example
+	Adds two operands	$A + B = 30$
-	Subtracts second operand from the first	$A - B = -10$
*	Multiplies both operands	$A * B = 200$
/	Divides numerator by de-numerator	$B / A = 2$
%	Modulus Operator and remainder of after an integer division	$B \% A = 0$
++	Increment operator increases integer value by one	$A++ = 11$
--	Decrement operator decreases integer value by one	$A-- = 9$

Example

The following example demonstrates all the arithmetic operators available in C#:

```
using System;
namespace OperatorsAppl
{
    class Program
    {
        static void Main(string[] args)
        {
            int a = 21;
            int b = 10;
            int c;

            c = a + b;
            Console.WriteLine("Line 1 - Value of c is {0}", c);
            c = a - b;
            Console.WriteLine("Line 2 - Value of c is {0}", c);
            c = a * b;
            Console.WriteLine("Line 3 - Value of c is {0}", c);
            c = a / b;
            Console.WriteLine("Line 4 - Value of c is {0}", c);
            c = a % b;
            Console.WriteLine("Line 5 - Value of c is {0}", c);
            c = a++;
            Console.WriteLine("Line 6 - Value of c is {0}", c);
            c = a--;
            Console.WriteLine("Line 7 - Value of c is {0}", c);
            Console.ReadLine();
        }
    }
}
```

When the above code is compiled and executed, it produces the following result:

```
Line 1 - Value of c is 31
Line 2 - Value of c is 11
```

```
Line 3 - Value of c is 210
Line 4 - Value of c is 2
Line 5 - Value of c is 1
Line 6 - Value of c is 21
Line 7 - Value of c is 22
```