

C# Operators

In this chapter, You will learn about the below C# Operators:

Operators

- Arithmetic Operators
- Comparison Operators
- Boolean Logical Operators
- Bitwise and Shift Operators
- Equality Operators

Arithmetic Operators

Operators that perform arithmetic operations with numeric operands

- Unary:
 - (++) increment
 - (--) decrement
 - (+) plus
 - (-) minus
- Binary:
 - (*) multiplication
 - (/) division
 - (%) remainder
 - (+) addition
 - (-) subtraction

Increment Operator (++)

- The unary increment operator ++ increments its operand by 1.
- The operand must be a variable, a property access, or an indexer access.
- The increment operator is supported in two forms:
 - the postfix increment operator, x++
 - the prefix increment operator, ++x

Postfix Increment Operator

The result of x++ is the value of x before the operation, as the following example shows:

```
int i = 3;
Console.WriteLine(i);    // output: 3
Console.WriteLine(i++);  // output: 3
Console.WriteLine(i);    // output: 4
```

Addition Operator +

The addition operator + computes the sum of its operands:

```
// Some comments
internal class Program
```

```
{  
    static void Main()  
    {  
        Console.WriteLine(5 + 4);           // output: 9  
        Console.WriteLine(5 + 4.3);         // output: 9.3  
        Console.WriteLine(5.1m + 4.2m);     // output: 9.3  
    }  
}
```