

## C# Unary Operators

The C# unary operator is widely used for **increment** or **decrement** value by **1**.

This operator widely used with loop constructs to increment loop by 1. It is very easy to use and understand C# unary operators.

### ++ INCREMENT OPERATOR:

This operator is pronounced as **increment operator**. It is used for incrementing value by 1.

It is used in C# programming by two types: **Pre-increment (++i)** and **Post-increment (i++)**. In pre-increment, first it increments by 1 then loop executes whereas in Post-increment, the loop executes then it increments by 1.

### Sample Program

```
using System;

. using System.Collections.Generic;
. using System.Linq;
. using System.Text;
.
. namespace run_csharp_code
. {
.     class Program
.     {
.         static void Main(string[] args)
.         {
.             int i = 0; // initialization
.
.
.             i++; // i incremented by one. It is post increment
.
.             Console.WriteLine("The value of i is {0}", i);
.
.         }
.     }
. }
```

```

.         Console.ReadLine();
.     }
. }
. }

```

### Output

```

The value of i is 0

Now the value of i is 1
—

```

### -- DECREMENT OPERATOR:

The behavior of decrement operator is just opposite from increment operator. It is used for decrementing the value by one.

It has also two types: **Pre-Decrement (--i)** and **Post Decrement (i--)**. In pre-decrement the value is decremented by one then loop executes whereas in post-decrement the loop executed then the value decrements by one.

### Sample Program

```

. using System;
. using System.Collections.Generic;
. using System.Linq;
. using System.Text;
.
. namespace Decrement_Operator
. {
.     class Program
.     {
.
.         static void Main(string[] args)
.         {
.
.             int i = 5; // Initialization
.
.             Console.WriteLine("The Value of i is {0}", i);
.
.

```

```
.      i--; // i decremented by one. It is post-decrement
.
.      Console.WriteLine("\nNow the value of i is {0}", i);
.
.      Console.ReadLine();
.    }
.  }
. }
```

### Output

**The Value** of i is 5

**Now** the value of i is 4

—