Basic Operators

This lesson will introduce you to types of operators in C# such as relational, unary, binary etc

WE'LL COVER THE FOLLOWING ^

Table of Operators

Until now we've used hardcoded values to output information to the screen. Now we'll use math on those values to force the computer to perform some *mathematical* grunt work.

A computer uses the same laws for math as we do. The **C**# language follows the rule of **PEMDAS** hence the *operations* on the **left** are executed before the operations to the **right**.

Table of Operators

The following table describes the allowable *operators*, their *precedence*, and *associativity*.

Category (by precedence)	Operator(s)	Associativity
Primary	x.y f(x) a[x] x++ x- new typeof default checked unchecked delegate	left
Unary	+ - ! ~ ++x -x (T)x	right
Multiplicative	* / %	left

Additive	+ -	left
Shift	<< >>>	left
Relational	< > <= >= is as	left
Equality	== !=	right
Logical AND	&	left
Logical XOR	^	left
Logical OR		left
Conditional AND	&&	left
Conditional OR		left
Null Coalescing	??	left
Ternary	?:	right
Assignment	= *= /= %= += -= <<= >>= &= ^= = =>	right

Note: Left *associativity* means that *operations* are evaluated from left to right. Right *associativity* means all *operations* occur from right to left, such as *assignment operators* where everything to the right is evaluated before the result is placed into the variable on the left.

Now that you've taken a look at the basic *operators* in **C**# lets take a look at **unary** *operators* in detail in the next lesson.