

Python Operators

Operators are used to perform operations on variables and values.

Python divides the operators in the following groups:

- 1.Arithmetic operators
- 2.Assignment operators
- 3.Comparison operators
- 4.Logical operators
- 5.Bitwise operators

Python Arithmetic Operators

Arithmetic operators are used with numeric values to perform common mathematical operations:

Operator	Name	Example
+	Addition	$x + y$
-	Subtraction	$x - y$
*	Multiplication	$x * y$
/	Division	x / y
%	Modulus	$x \% y$
**	Exponentiation	$x ** y$
//	Floor division	$x // y$

Python Assignment Operators

Assignment operators are used to assign values to variables:

Example:

```
k=20
```

```
y=k+20
```

Python Logical Operators

Logical operators are used to combine conditional statements:

Operator	Description	Example
and	Returns True if both statements are true	$x < 5$ and $x < 10$
or	Returns True if one of the statements is true	$x < 5$ or $x < 4$
not	Reverse the result, returns False if the result is true	not($x < 5$ and $x < 10$)

Python Comparison Operators

Comparison operators are used to compare two values:

Example : X=10 , Y=10

```
if (X == Y )  
    print("Both are eqal")
```