

Types of op	peraloss	in	pytho	eW.			
1 Arithematic operators							
Comparision/Relational	obera	tors					
- Logical operations							
- Assignment operators							
- Identity operators							
- Membership Operators							
- Binary operators							

Logical Operators in Python

Logical oberators are used to combine 2 or more conditions

Operator	Meaning
and	It will return true when both conditions are true
or	It will returns true when at-least one of the condition is true
not	If the condition is true, logical NOT operator makes it false

Let us see some examples

a=40

b=20 C=50 C=50

a>6 and a>c a>b and c>a

False

Assignement operator

Python assignment operator is used to assign values to declared values.

(=) most commonly used in python

Eg a = 10 $b = T_{8ve}$ x, y, 3 = 10, 20, 30

Compound Assignment Operator

Python allows us to combine arithematic and litwise operator with assignment operator

$$\mathcal{K} = \mathcal{K} + 5$$

can be written as

$$x + = 5 \implies x = x + 5$$

Examples of using Compound assignment

Operator	Example	Meaning
+=	x+=5	x=x+5
=	x-=5	x=x-5
=	x=5	x=x*5
/=	x/=5	x=x/5
%=	x%=5	x=x%5
//=	x//=5	x=x//5
=	x=5	x=x**5
&=	x&=5	x=x&5
!=	x!=5	x=x!5
^=	x^=5	x=x^5
>>=	x>>=5	x=x>>5
<<=	x<<=5	x=x<<5

Python does not have any increment Operator like ++ or --++10 => +(+10) => 10 lut a++ is an error as it doesn't make any sense.

I dentity Operator

I dentity operators in Python are is and is not.

They serve 2 purposes -

1. To verify if the reference point to the same memory location or not

2. To determine if the value is of <u>Certain class</u>

Behaviour of is and is not

is is returns True if the operands are identical else false

is not: is not reborns. Tove if operands are not identical else false

Example: id()

a=2 b=3 C=a isb

c= aisb print(c) beint(c)

False

a is int??

type (a) is int?

Difference between is & ==

Equality operator (==) is used to compare the values.

Identity operator (is) is used to compare the IDs.