Operators in Python

- Arithmetic Operators
- · Bitwire operators
- · Assignment Operators
- · Relational Operations
- · Logical Operators
- · Onary Operators

Defination: - Operators are used to perform on variables and values.

Anotheretic operator: - Anotheretic operator are used to with numeric values to few perform common mathemetical operation. [2=3; y=8]

- · Addition (+) Ege x+y 1/13
 - · subtraction (*-) Eg: x-y 11-3
 - · Multiplication (*) Eg: x * y 1/40
 - · Division (1) Eg:- x/y 116.625
 - · Modules (1.) Egt- x1/4/15
 - · exponential (**) Eg: *** y 1/ 390625
 - · Hav division (11) 25 ×1/y 110

Assignment operators :-

Assignment operators is used to arright values to

Voriables.

emables.		
Operators.	Examples	Same As
=	X = 5	4.25
+=	x +=3	2:1+3
- =	X -= 3	7 = 4-3
* =	x * = 3	z = x*3
/=	x/=3	x = x/3
-/, =	×7.=3	x = x 7-3
1=	x 1/ = 3	x = x//3
**=	X *x = 3	Y = X ** 3
=	x \ = 3	x = x 3
^ =	× 1=3	x = x ^3
>> =	x>>=3	x = x >> 3,
21 =	X XL=3	x = x << 3
:=	25-3	1 × ×=3
	print (z:=3)	

Relational Operators.

Relational operators are used to compare two values.

Operator Name example.

== Equal 1==y

!= Not Equal 1==y

> Greater than

Less than

>== Greater than / Equal to

1==y

1==y

1==y

1==y

1==y

1==y

1==y

1==y

1==y.

Logical Operators are used to combine conditional Obatement.

operator Description example.

and Returns "True", "it both was and xelo statements are true

Returns True", it one 04 of the statement is three not (x < 5 and k Reverse the result, returns False if the result is hot true. Truth Tables OR CIM-A 0 0 NOT

Unary Operators.

Unary operators in python on operator that operator on a single command operand.

They are typically used to alter the value.

· Orang minus (-) => returns the the value

· Orang minus (-) => returns the -ve value

Bituire Peraton:

Bituire Oporators are used to compare (binary)

Operator	Name	Description.
4	And	set each bit to 1, it both bib one 1
1	OY	sets each bit to 1, it
		one of two bits is 1
	x ok	sets each bit to 1, it
		only one of two bits

Invests all the bib.

shift left by pushing seros in from the right and let the leftmost bits tall off.

& Right shift

shift right by pushing copies of the left most bit in from the left and let the righmost bits tall off.

Number system refers to h

A number system refers to how numbers and stored in different bases.

Types of number system.

example. Bare Digits used System 0-9 Decimal 10 061101 0,1 Binary 2 0-7 8 Octal 0×1F 0-9, A-b 16 Hexa decimal

pretix = . Decimal has no pretix

- · Binary dra prefix is "ob of OB"
- . Octal Prefix is "00/00"
 - . Hexadecimal pretix is " 0x/.0x".

Swap Variables in python: 0 = 5 6 = 6 1 method (1) for swaping using temp." temp = a a= 6 6 = temp : topto print (a) Print (b)

$$a = a + b$$

$$b = a - b$$

$$a = a - b$$

print (a)

0/p: 6

1) method (3) of swaping using " x0x,"

a = a 1 b

b = a 1 b

a = a n b.

11 method @ of swaping with no extra variable / operators. (simple method)

a, b = b, a.1.