**Operators in python**

* Operators are nothing but some special symbols which perform specific operations between two operands.
* Operands like left operand and right operand.
* Symbols like +, -, /, \*, ==, >, <, >=, <=, != .

**Types of Operators**

* There are 4 types of operators. They are:

1. Arithmetic Operator
2. Assignment Operator
3. Comparison Operator
4. Logical Operator

**1.Arithmetic Operator:**

* Arithmetic operator can perform basic mathematical operations.
* List of arithmetic operators are (+, -, \*, /, %).
* **Addition (+):**

a=10

b=20

print (a + b)

* **Subtraction (-):**

a=20

b=30

print (a-b)

* **Multiplication (\*):**

a=16

b=8

print(a\*b)

* **Division (/):**

a=100

b=10

print(a/b)

* **Module (%):**

a=121

b=2

c=(a%b)

print(c)

1. **Assignment operator:**

The assignment operator in python is used to store a value or variable.

List of assignment operator ( =, +=, -=, \*=, /=)

* **Assign(=) :**

age=22

* **Add assign(+=):**

age=22

age+=1

print(age)

* **Subtract assign**

age=10

age-=10

print(age)

* **Multiply assign**

Age=20

Age\*=20

print(Age)

* **Divide assign**

Abc=200

Abc/=2

print(Abc)

* **Modular division assign**

Age=40

Age%=500

Print(Age)

1. **Comparison Opertor**

* The output will in the form of true or false.
* List of comparison operators (>,<,>=,<=,==,!=)
* **> - Operator**

a=10

b=5

Print(a>b)

* **< - Operator**

A=10

B=60

print(A<B)

* **>= - Operator**

a=50

b=50

print(a>=b)

* **<= - Operator**

a=50

b=60

print(a<=b)

* **== - Operator**

a=30

b=50

Print(a==b)

* **!= - Operator**

a=40

b=60

Print(a!=b)

**4.Logical Operator**

* The output will be in form of true or false.
* List of logical operators are (And,Or,Not)
* **Logical AND:**

a=100

b=100

print(true and true) o/p:true

print(true and false) o/p:false

Print(false and true) o/p:false

* **Logical OR:**

a=60

b=50

Print(a!=b OR a==b) o/p:True

* **Logical NOT:**

a=True

print(NOT a) o/p:False

print(NOT NOT a) o/p:True