**Python operators :**

operators are nothing but symbol which are perform specific operations between operands is called as operators

**Types of operators :**

* Arithmetic operators : + , - , \* , /, %
* Assignment operators : = , += , -= , \*= , /=
* Comparision operators : > , < , >= , <= , == , !=
* Logical operators : And , or , not

**Arithmetic operators : ( + , - , \* , / , % )**

**Examples :**

1.program : 2.program : 3.program : 4.program :

a = 20 ; p = 50 ; ab = 5 ; a1 = 10 ;

b = 20 ; q = 40 ; cd = 5 ; b1 = 2 ;

c = a+b r = q-r ef = ab\*cd c1 = (a1/b1)

print(c) print(r) print(ef) print(c1)

output : output : output : output :

40 10 25 5.0

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print(c) print(r) print(ef) print(c1)

output : output : output : output :

40 10 25 5.0

5.program :

a2 = 22 ;

b2 = 2 ;

c2 = (a2%b2)

print(c2)

output :

0

**Assignment operators : (+= , -= , \*= , /=)**

**Examples :**

1.program : 2.program 3.program :

Age = 25 ; salary = 25000 ; ab = 10 ;

Age = age + 2 ; salary = salary – 2000 ; ab = ad \* 2 :

Print(age) print(salary) print(ab)

Output : output : output :

27 23000 20

4.program :

p = 25 ;

j = 4 ;

s = (p/j)

Print(s)

Output :

6.25

**Comparision operators : (> , < , <= , >= ,== , !=)**

**Examples :**

1.program : 2.program : 3.program :

A = 10 ; age = 18 ; salary = int(input(“enter the salary:”)

B = 30; a = 22 ; abc= salary >= 24000

Print (a > b) print (age < a) print(abc)

Output : output : output :

False True enter the salary : 28000

True

4.program : 5.program :

Salary = int(input(“enter the salary:”) ab = 22 ;

cd = salary <= 22000 bc = 22;

Print(cd) cd =(ab==bc)

Output : print(cd)

Enter the salary : 24000 output :

False True

6.program : 7.program :

A1 = 46 ; b1 = 88 ;

A2 = 25 ; b2 = 56 ;

C = (a1!=a2) d = (b1==b2)

Print(c) print(d)

Output : output :

True False

**Logical operators : (And , OR , NOT)**

**Example (AND):**

1.Program : 2.program :

Ab = 100 ; a = 30 ;

A2 = 30 ; b2 = 75 ;

C = (a1!=a2) d = (b1==b2)

Print(c) print(d)

Output : output :

True False

**Logical operators : (And , OR , NOT)**

**Example (AND):**

1.Program : 2.program :

Ab = 200 ; a = 30 ;

Bc = 20 ; b = 30 ;

Print(ab==bc & bc==ab) print(a==b & b==a)

Output : output :

False True

**Example (OR) :**

1.program : 2.program :

Print(True or False) print(False or False)

Output : output :

True False

Print(ab==bc & bc==ab) print(a==b & b==a)

Output : output :

False True3.program : 4.program :

Print(True or True) print(False or True)

Output : output :

True True

**Example (Not):**

1.program : 2.program :

Print( True) print(not False)

Output : output :

True True

3.program : 4.program :

Print(not not True) print(not not False)

Output : output :

True False