**#python operators**

#1..Arthematic operators

print(5+2) #addition

print(5-2) #subtraction

print(5\*2) #product

print(5/2) #division

print(5%2) #modulas..i.e. remainder

print(15//4) #gives only the integer part of the quotient

print(5\*\*2) # act as power operator that is 5^2

#2..Assignment operators

a=5 #assiging the value 5 to varibale a

print(a)

a+=3 #it means same as a=a+3

print(a)

a-=2 #it means same as a=a-2

print(a)

a\*=5 #it means same as a=a\*5

print(a)

a/=6 #it means same as a=a/5

print(a)

a%=3 #it means same as a=a%3

print(a)

a\*\*=3 #it means same as a=a\*\*3

print(a)

a//=4 #it means same as a=a//4

print(a)

#3..Comparision operators

print(3==4) #equality check

print(3!=4) #not equality check

print(3>4) #greater then check

print(3<4) #less then check

print(5>=6) #greater then equality check

print(5<=6) #less then equality check\

#4..Logical operators

x=2

print(x<5 and x<8) #return true only if both the statements are true

print(x>3 and x>1)

print(x>2 or x>1) #return true if atleast one of the conditions are true

print(x>2 or x>3)

print(not(x>2 or x>3)) #it returns the reversed result(vice versa)

#5..identity operators

a=[10,20]

b=[10,20]

c=a

print(a is c) #returns true if both the variables are the same object pointing to a same memory location

print(b is a) ##it will return false because only object is same but the memory location is different here