***#>>>>>>>>>>>>>>>>>>>>>>operators<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<***

**#Arithmetic Operators**

a = 10

b = 3

print(a + b)

print(a - b)

print(a \* b)

print(a / b)

print(a // b)

print(a % b)

print(a \*\* b)

**# Assignment Operators**

x = 5

x += 2

x -= 1

x \*= 3

x /= 2

x %= 4

x \*\*= 2

x //= 2

**# Comparison Operators**

a = 5

b = 10

print(a == b)

print(a != b)

print(a > b)

print(a < b)

print(a >= b)

print(a <= b)

**# Logical Operators**

x = True

y = False

print(x and y)

print(x or y)

print(not x)

**#identity**

a = [1, 2, 3]

b = a

c = [1, 2, 3]

print(a is b)

print(a is not c)

**#membership**

lst = [10, 20, 30]

print(10 in lst)

print(50 not in lst)

**#bitwise**

a = 5

b = 3

print(a & b)

print(a | b)

print(a ^ b)

print(~a)

print(a << 1)

print(a >> 1)

**#example using all operators**

x = 10

y = 4

print(x + y, x \* y)

x += 2

print(x == y)

print(x > 5 and y < 5)

print(x is y)

print(4 in [1, 2, 3, 4])

print(x & y)