▼ Operators in Python

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```
# Arithmetic Operators
num_1 = 10
num_2 = 20
#Addition
sum = num_1 + num_2
print('Sum =',sum)
#Subtraction
diff = num_2 - num_1
print('Difference =',diff)
#Multiplication
prod = num_1 * num_2
print('Product =',prod)
#Division
div = num 2 / num 1
print('Division =',div)
floor = num_1 // num_2
print('Floor =',floor)
                               # retruns integer quotient
#Exponent
exp = num_1**num_2
print('Exponent =',exp)
mod = num_1 \% num_2
print('Modulus =',mod)
                               # returns remainder
 Sum = 30
      Difference = 10
     Product = 200
Division = 2.0
      Floor = 0
      Modulus = 10
# Assignment Opeartors
a = 5
                      # "=" is assignment operator
print(a)
a = 5
                       # "+=" means a= a+5
print(a)
b = 10
                      # "-=" means b= b-2
print(b)
c = 3
                     # c= c*4
print(c)
                     # c= c^4
print(c)
c = 5
                     # c= c/2
print(c)
c = 12
                    # c= c%3
c %=3
print(c)
      5
      10
      8
      12
```

2.5

```
# Comparison Operators
a = 5
b = 10
print(a == b)
                   #equal to
print(a != b)
                   #not equal to
print(a > b)
                   #greater than
print(a < b)
                   #less than
                  #less than equal to
#greater than equal to
print(a <= b)</pre>
print(a >= b)
# returns either true or false
      False
      True
      False
      True
      True
      False
# Logical Operators
#and
print( a>20 and a<10)
print( a <=10 and a>8)
print( a>9 or a>30)
print( a>20 or a==12)
#not
print( not(a>5))
      False
      True
      True
      False
      False
# Identity Opeartors
x = 5
y = 5
#is
print(x is y)
#is not
print(x is not y)
      True
      False
# Membership Operators
b = 10
c = [1,2,3,4,5]
# in
print(a in c)
print(a not in c)
# not in
print(b in c)
print(b not in c)
      True
      False
      False
      True
```