**Aim: Write a program to implement all operators in python.**

**Source Code:**

#Arithmetic Operators

x = 20

y = 10

print('x + y =',x+y)

print('x - y =',x-y)

print('x \* y =',x\*y)

print('x / y =',x/y)

print('x // y =',x//y)

print('x \*\* y =',x\*\*y)

#Comparison Operators

x = 5

y = 10

print('x > y is',x>y)

print('x < y is',x<y)

print('x == y is',x==y)

print('x != y is',x!=y)

print('x >= y is',x>=y)

print('x <= y is',x<=y)

#Logical Operators

x = True

y = False

print('x and y is',x and y)

print('x or y is',x or y)

print('not x is',not x)

#Membership Operator

x = 'Hello world'

y = {1:'a',2:'b'}

print('hello' not in x)

print(1 in y)

**Output:**

x + y = 30

x - y = 10

x \* y = 200

x / y = 2.0

x // y = 2

x \*\* y = 10240000000000

x > y is False

x < y is True

x == y is False

x != y is True

x >= y is False

x <= y is True

x and y is False

x or y is True

not x is False

True

True