Operators

1. Airthematic Operators (+, -, x, /, //, %, ^)

```
In [3]: x = 5
        y = 2

        print(5+2)
        print(5-2)
        print(5*2) # x
        print(5/2)
        print(5//2) # return int value
        print(5%2) # return reminder
        print(5**2) # ^ (power of..)
```

```
7
3
10
2.5
2
1
25
```

2. Relational/ Comparison Operators (<, >, >=, <=, ==, !=)

```
In [4]: print(5<2) # less than
        print(5>2) # greater than
        print(5>=2) # greter equal
        print(5<=2) # Less equal
        print(5==2) # Qual
        print(5!=2) # not qual
```

```
False
True
True
False
False
True
```

3. Logical Operators (and, or, not)

```
In [6]: print(5 and 2)
        print(5 or 2)
        print(not 2)
```

```
2
5
False
```

4. Bitwise Operators (&, |, ^, <<, >>, ~)

```
In [9]: print(5&2) # and
        print(5|2) # or
        print(5^2) # xor
        print(5<<2) #left shift
        print(5>>2)# right shift
        print(~5) # tilda
```

```
0
7
7
20
1
-6
```

5. Assignment Operators

```
In [12]: # = (assignment)

         a = 2 # a is variable
         print(a) # = is assignment operator, 2 is a literal

         a += 2
         print(a)
```

```
2
4
```

6. Membership Operators(in, not in)

```
In [17]: print('D' in 'Delhi')
         print('D' not in 'Delhi')

         print(1 in [2,3,4,5,6])
         print(1 not in [2,3,4,5,6])
```

```
True
False
False
True
```

Thank you!