# **Operators**

25

False True

False

```
    Airthematic Operators
    Relational Operators
    Logical Operators
    Bitwise Operators
    Assignment 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) print(5/2) # return int value
print(5%2) # return reminder
print(5**2) # ^ (power of..)
7
3
10
2.5
2
1
```

## 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</pre>
False
True
True
False
False
```

#### 3. Logical Operators (and, or, not)

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

#### 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])

    True
    False
    False
    False
```

# Thank you!

True