18th -- PYTHON OPERATOR

In [2]:
```
x1 = 10
y1 = 5
```

In [3]:
```
x1,y1 = 10,5
```

In [4]:
```
a,b = 6
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[4], line 1
----> 1 a,b = 6

TypeError: cannot unpack non-iterable int object
```

In [5]:
```
a,b = 6,6
```

In [6]:
```
print(a)
print(b)
```

```
6
6
```

In [7]:
```
x1 + y1
```

Out[7]: 15

In [8]:
```
x1 - y1
```

Out[8]: 5

In [9]:
```
x1 * y1
```

Out[9]: 50

In [10]:
```
x1 / y1
```

Out[10]: 2.0

In [11]:
```
x1 // y1
```

Out[11]: 2

In [12]:
```
x1 % y1
```

Out[12]: 0

In [13]:
```
x1 ** y1
```

Out[13]: 100000

In [14]:
```
3 ** 2
```

Out[14]: 9

In [15]:
```
2 ** 2
```

Out[15]: 4

In [16]:
```
x2 = 3
y2 =3

x2 ** y2
```

Out[16]: 27

Assignment Operator

In [17]:
```
x = 2
```

In [18]:
```
x = x + 2
```

In [19]:
```
x
```

Out[19]: 4

In [20]:
```
x += 2
x
```

Out[20]: 6

In [21]:
```
x *= 2
x
```

Out[21]: 12

In [22]:
```
x /= 2
x
```

Out[22]: 6.0

In [23]:
```
x //= 2
x
```

Out[23]: 3.0

In [24]:
```
x**=2
```

In [25]:
```
x =4
```

In [26]:
```
14 / 2
```

Out[26]: 7.0

In [27]:
```
14 //=2
```

```
  Cell In[27], line 1
    14 //=2
    ^
SyntaxError: 'literal' is an illegal expression for augmented assignment
```

Unary operator

In [28]:
```
n = 7
n
```

Out[28]: 7

In [29]:
```
m = -(n)
m
```

Out[29]: -7

In [30]:
```
-n
```

Out[30]: -7

Relational operator

In [31]:
```
a = 5
b = 6
```

In [32]:
```
a < b
a > b
```

Out[32]: False

In [33]:
```
a < b
```

Out[33]: True

In [34]:
```
a > b
```

Out[34]: False

In [35]:
```
a == b
```

Out[35]: False

In [37]:
```
a != b
```

Out[37]: True

In [38]:
```
b = 5
```

In [39]:
```
a == b
```

Out[39]: True

In [40]:
```
a
```

Out[40]: 5

In [41]:
```
b
```

Out[41]: 5

In [42]:
```
a > 5
```

Out[42]: False

In [43]:
```
a >= b
```

Out[43]: True

In [44]:
```
a <= b
```

Out[44]: True

In [45]:
```
a < b
```

Out[45]: False

In [46]:
```
a > b
```

Out[46]: False

Logical Operator

In [47]:
```
a = 5
b = 4
```

In [48]:
```
a < 8 and b < 5
```

Out[48]: True

In [49]:
```
a < 8 and b < 2
```

Out[49]: False

In [50]:
```
a < 8 or b < 2
```

Out[50]: True

In [51]:
```
a>8 or b<2
```

Out[51]: False

In [52]:
```
x =  False
x
```

Out[52]: False

In [53]:
```
not x
```

Out[53]: True

In [54]:
```
x
```

Out[54]: False

python bitwise operator

In [55]:
```
~12
```

Out[55]: -13

In [56]:
```
~46
```

Out[56]: -47

In [57]:
```
~54
```

Out[57]: -55

In [58]:
```
~10
```

Out[58]: -11

binary number system

In [59]:
```
25
```

Out[59]: 25

In [60]:
```
bin(25)
```

Out[60]: '0b11001'

In [61]:
```
0b11001
```

Out[61]: 25

In [ ]:
```

```