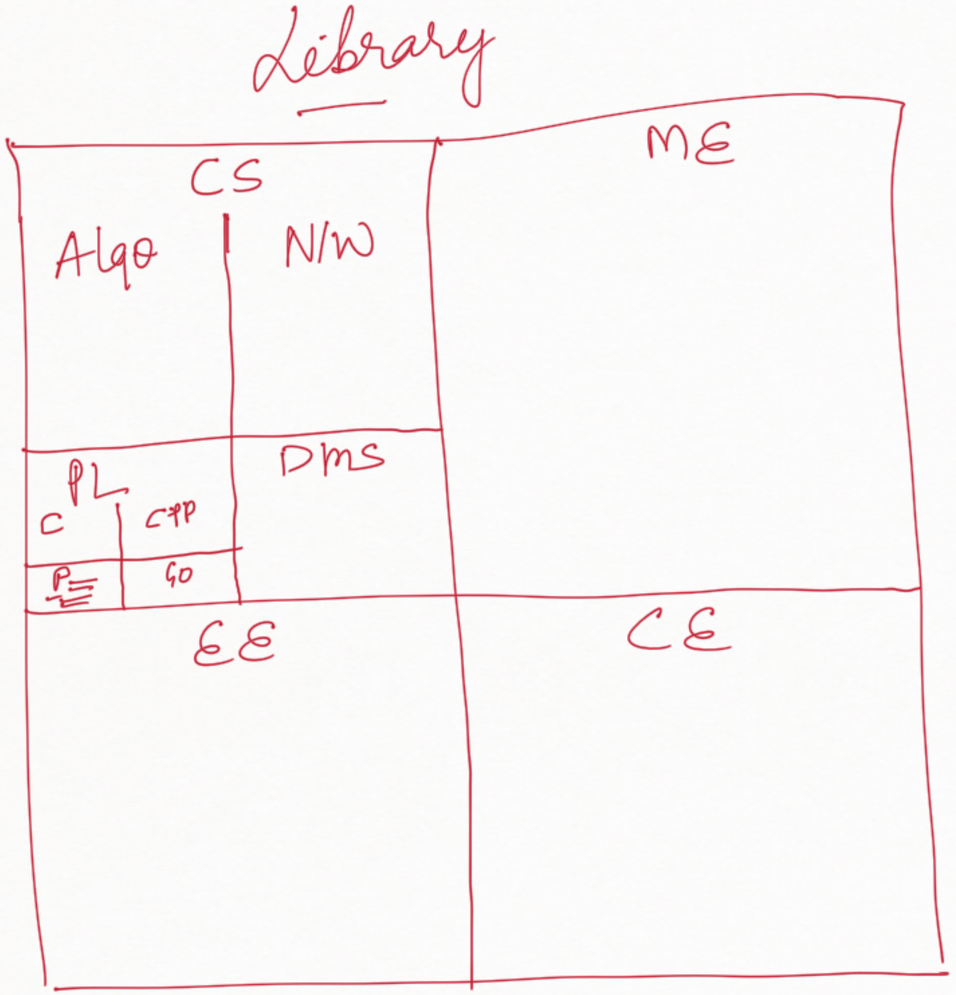
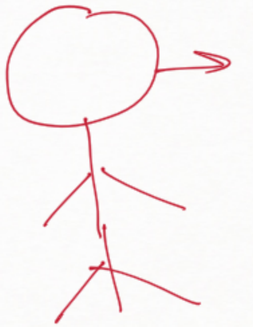




Book store

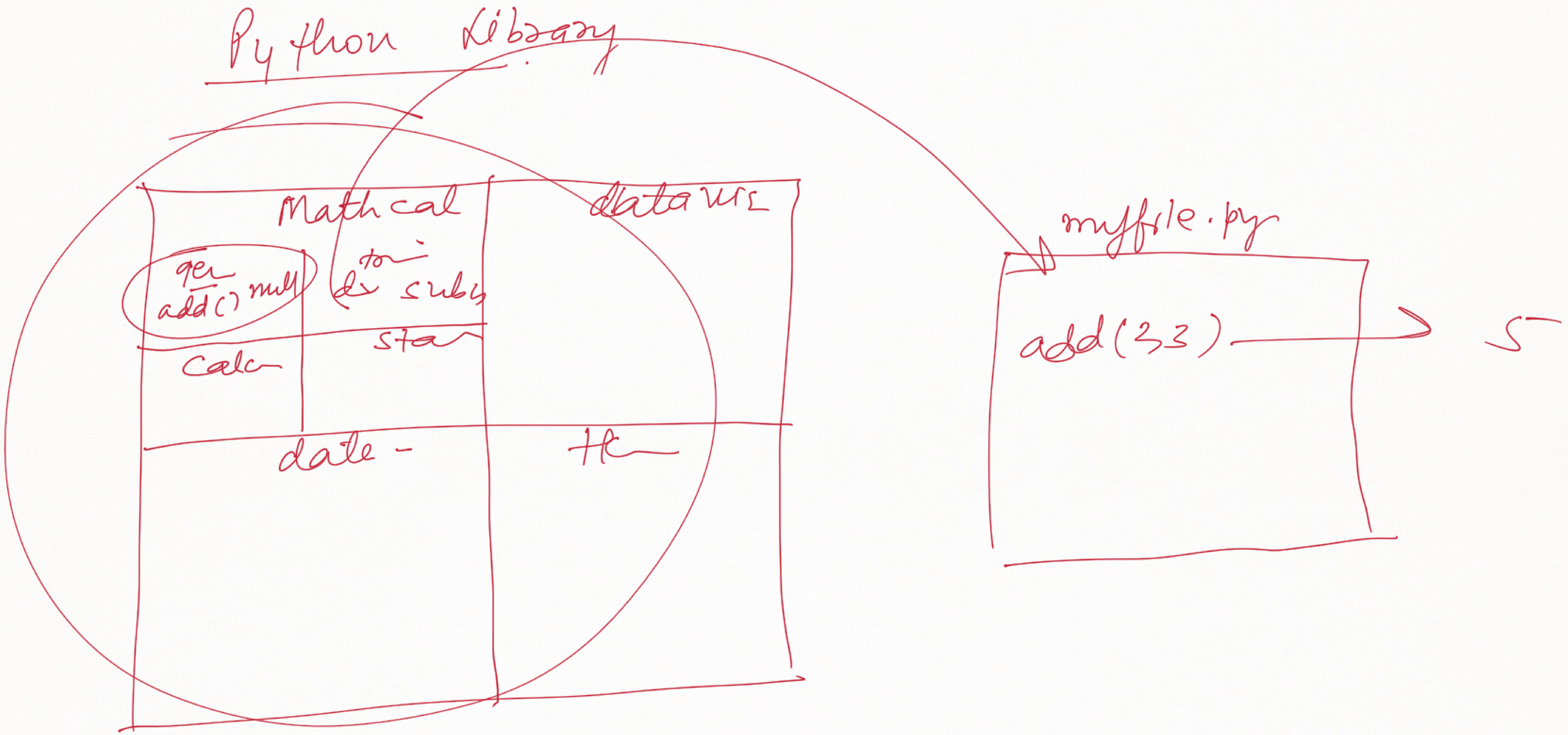
→ Extra cost

→ Extra term

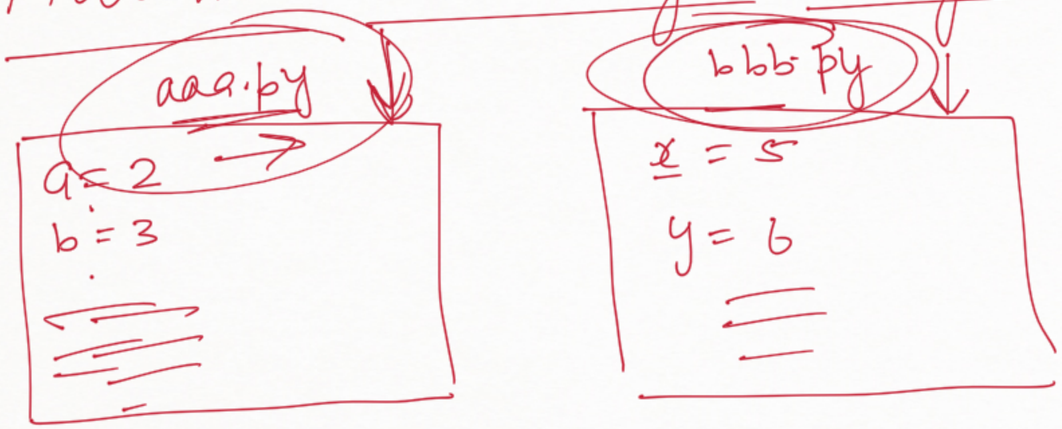
dq libs

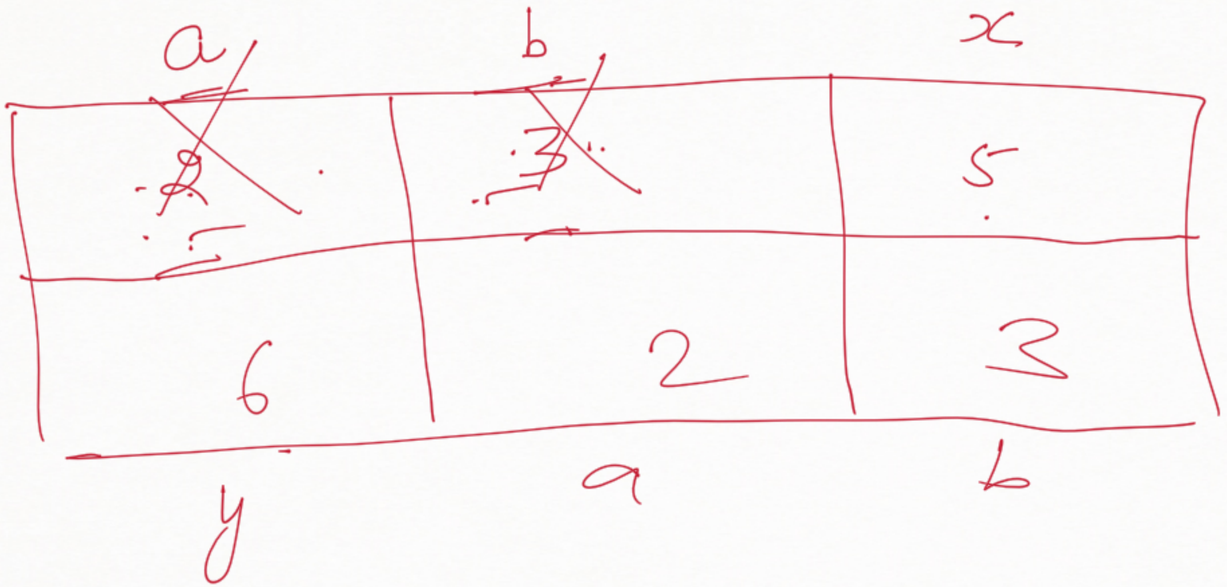
→ No extra cost

→ No extra ti


Python Library
Mathcal
add() mul
sub
stat
calc
date
myfile.py
add(3 3)
5

Automatic memory management & Garbage collector :



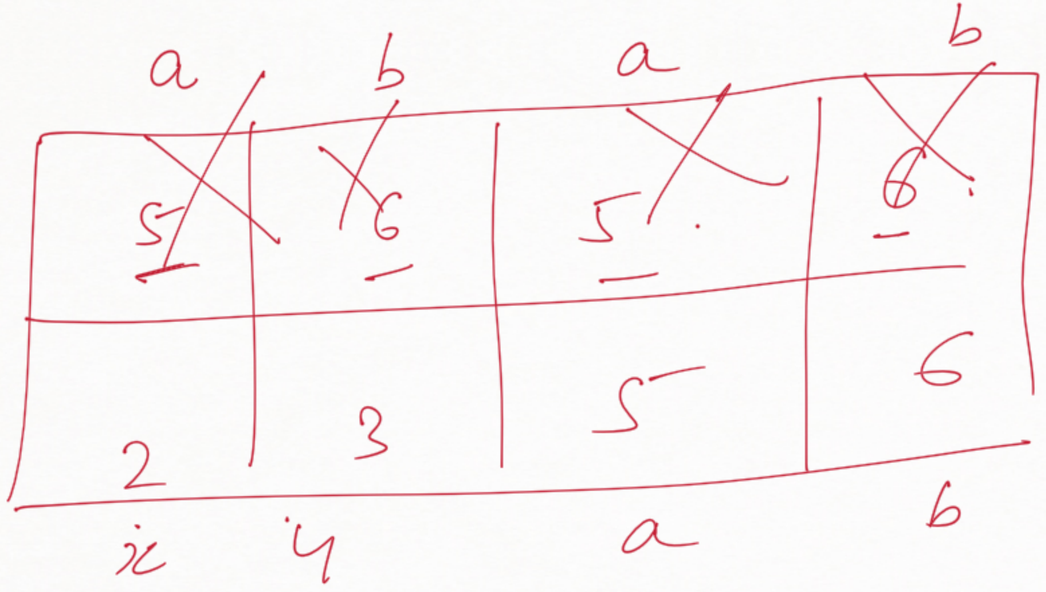


aaa.py

```
a = 5
b = 6
```

bbb.py

```
x = 2
y = 3
```

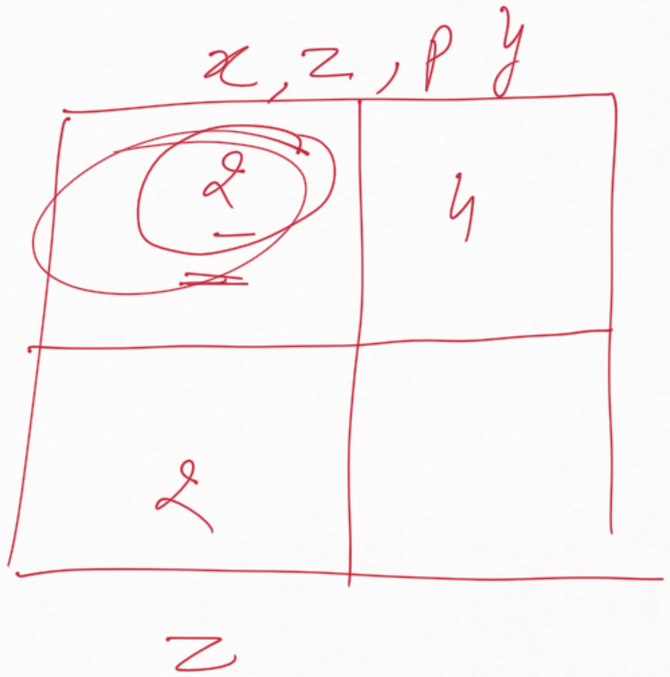


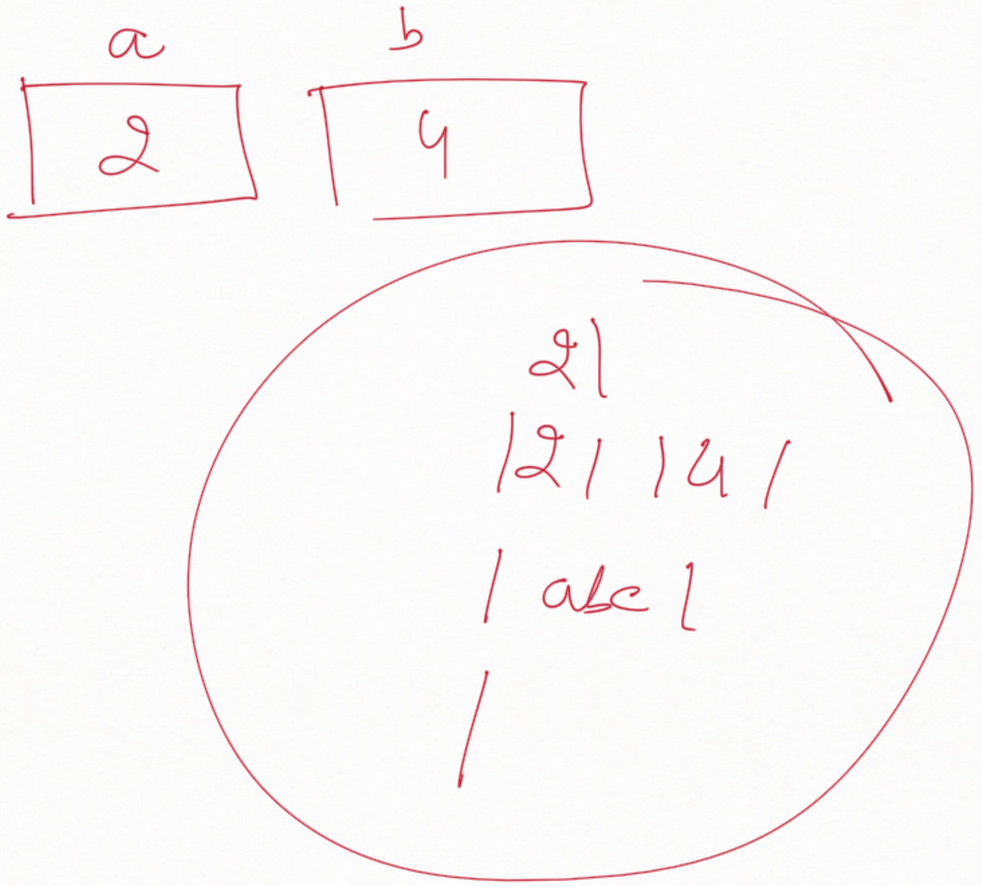
$x = 2$

$y = 4$

$z = 2$

$p = 2$





→ a = 2

→ b = 4

→ print (a)

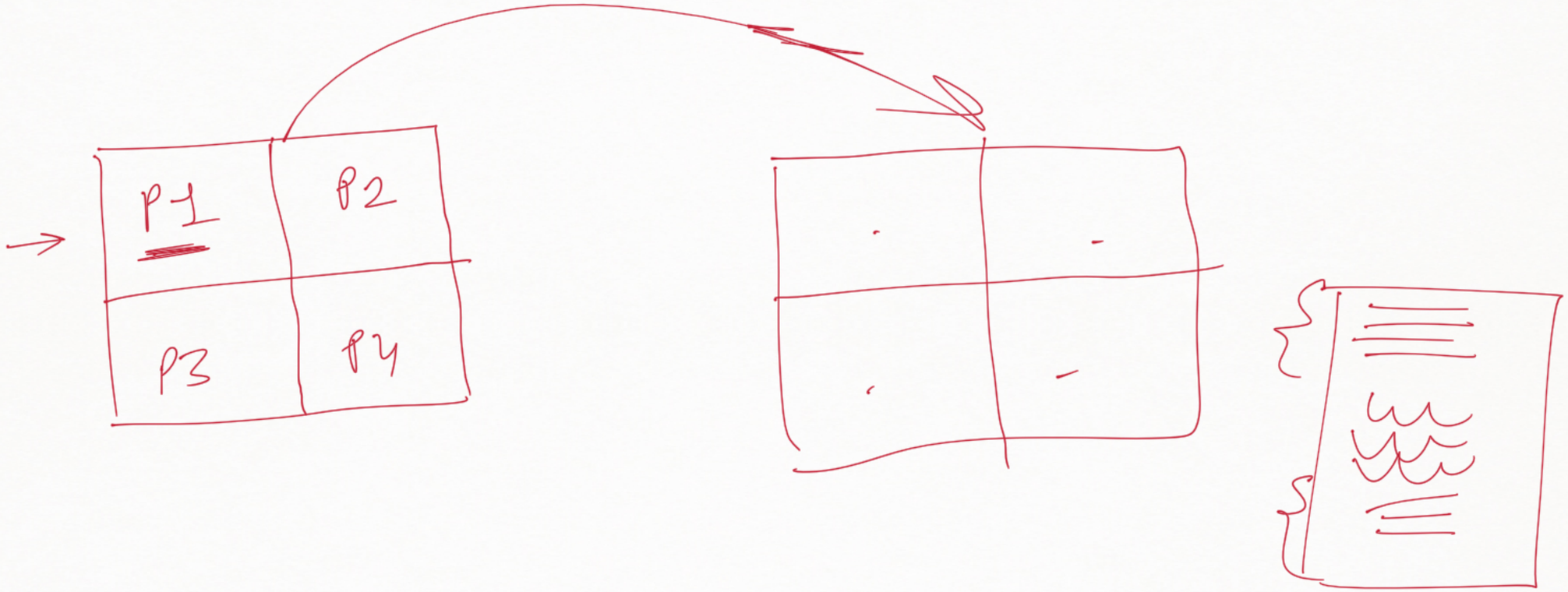
→ print (a, b)

→ print ('abc')

→

sep = '_' end = '\n'

Comments in Python :-

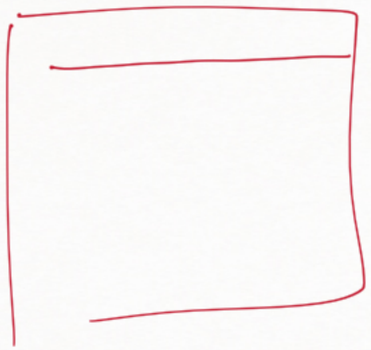


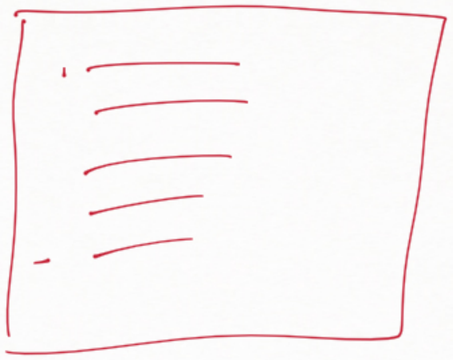
Comment

Single line

Multiline comment

#





''' = '''

'' '' '' = '' '' ''

Data type in Python:

Number

int → -n to +n

float → -n.n to +n.n

complex → 2+9j

j → $\sqrt{-1}$.

2 → real

9 → imag

String :

'2'

"2"

'''2'''

"""2"""

collection of characters.

'abc' → string

'a' → string

x = 'abc'

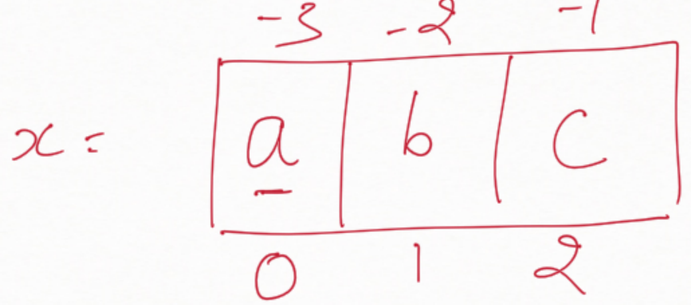
x ↵

x[0] or x[-3]

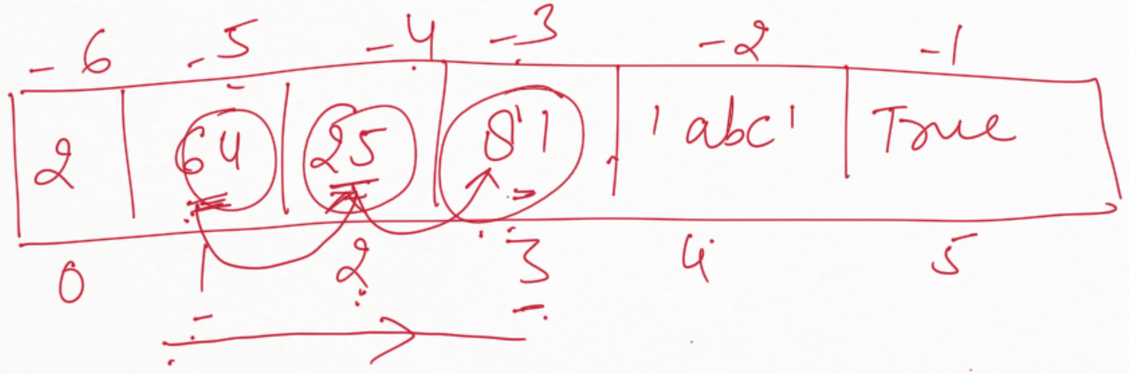
↪ 'a'

x[-2] or x[1] → 'b'

x[-1] or x[2] → 'c'



a = [2, 64, 25, 81, 'abc', True]



[64, 25, 81]

-4 + 5 = 1

2 - 1 = 1

3 - 2 = 1

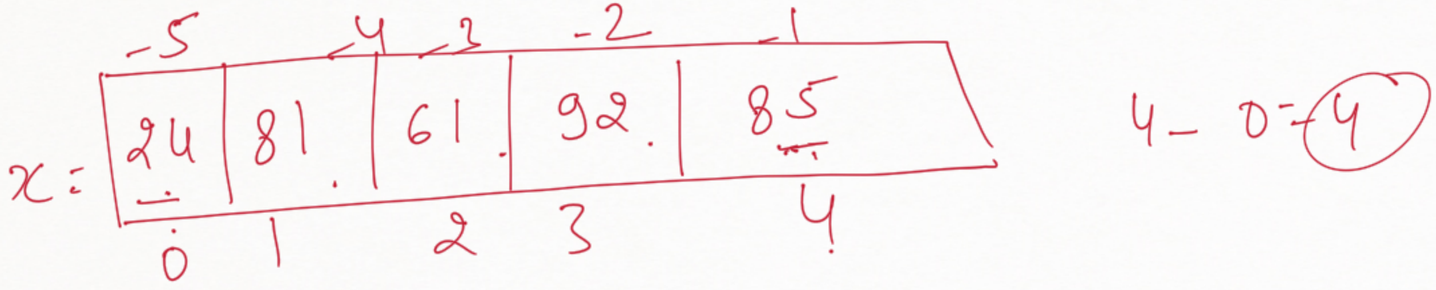
ln[start : stop : step]

a[-5 : -2 : 1]

a[1 : 4 : 1]

a[-5 : 4 : 1]

a[1 : -2 : 1]

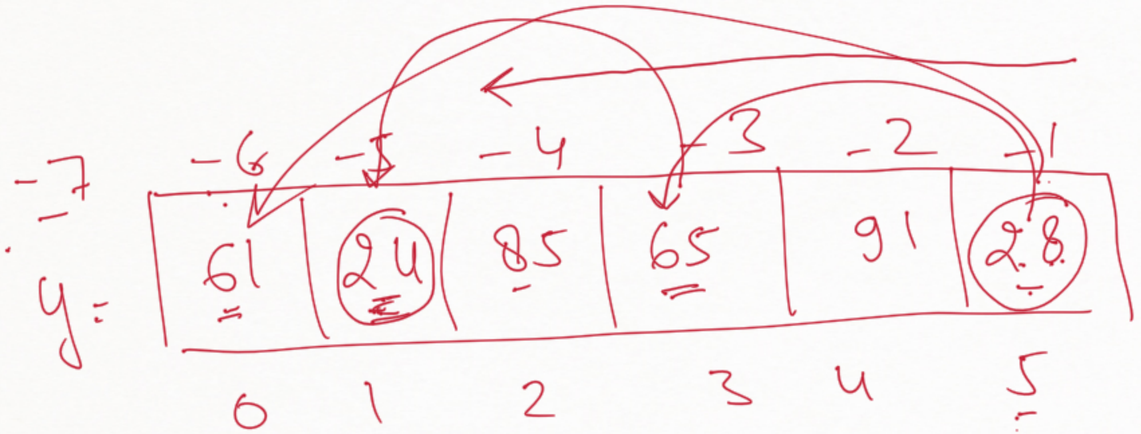


4 - 0 = 4

[24, 85]

x[0:5:4]

x[-5:5:4]



3 - 5 → -2

1 - 3 → -2

0 - 5 → -5

[28, 65, 24]

y[5 : -6 : -2]

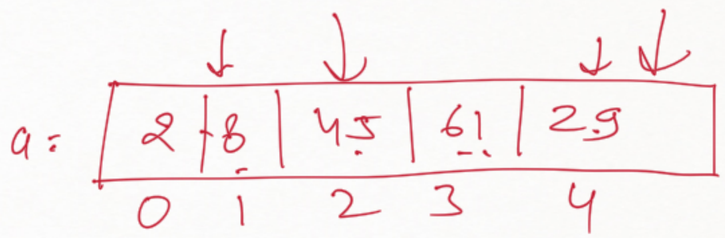
y[-1 : 0 : -2]

[28, 61]

y[5 : -7 : -5]

y[-1 : -7 : -5]

	Start	Stop	Step
M:N:L	M	N-1	L
M:N →	M	N-1	+1
M:	M	len(a) -1	+1
M::L	M	"	L
:N:L	0	N-1	L
:N:	0	N-1	+1
::L	0	len(a)-1	L
:	0	"	+1

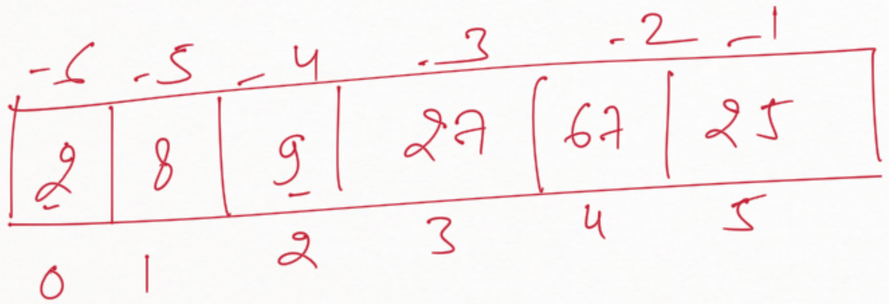


a[1:5:2] → [8, 61]

a[2:5] →

list_name [start : stop : step]

a:



[2, 8, 9)

a[0:3:1]

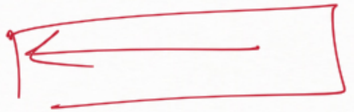
Slicing L → R

Start → 0

Stop → -1

Step → +1

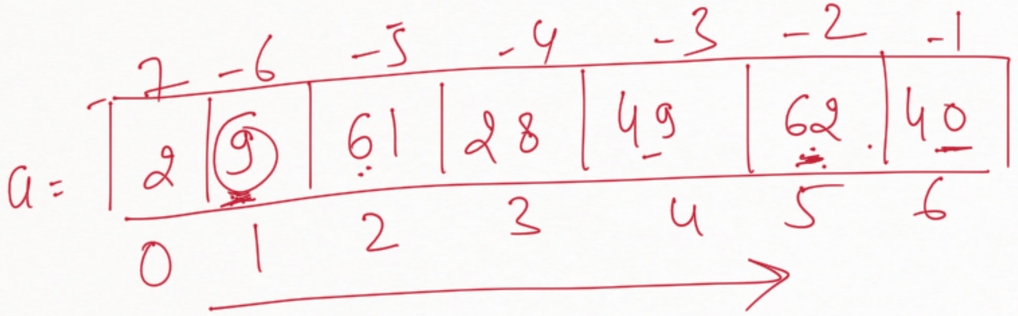
Slicing R to L



start → -1

stop → 0

step → +1



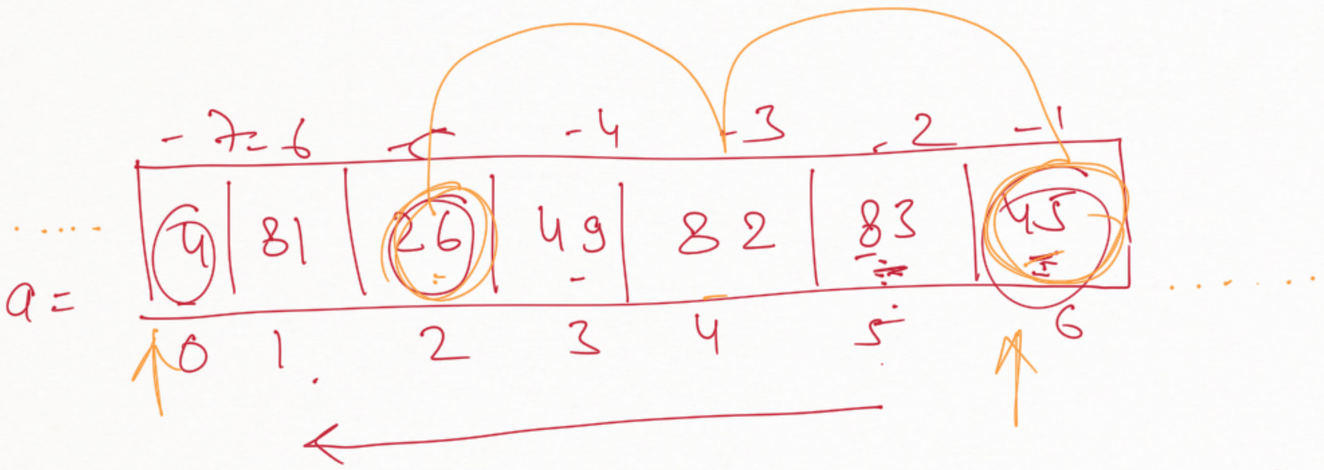
if step → + L to R

− R to L

a[1:6:3] → [9, 49]

a[1:6] → [9, 61, 28, 49, 62]

a[1:] → [9, 61, 28, 49, 62, 40]



a[:] → [4, 81, 26, 49, 82, 83, 45]

a[6: 2: -1] → [45, 83, 82, 49]

a[5: 1] → [ ]

a[5:] → [83, 45]

89

a[::-1] →

[45, 81, 82, 49, 26, 81, 4]

a[2: 89: 2] → [26, 82, 45]

a[:-24: -2] → [45, 82, 26, 4]

Adding elements

append() → add one element at last of the list

insert() → add one element at your desired location

extend() → add more than one element at last of the list

Removing elements

pop() → remove one element by using index from list

remove() → remove one element ——— value from list

del → remove one or more than one ———

clear() → remove all el—

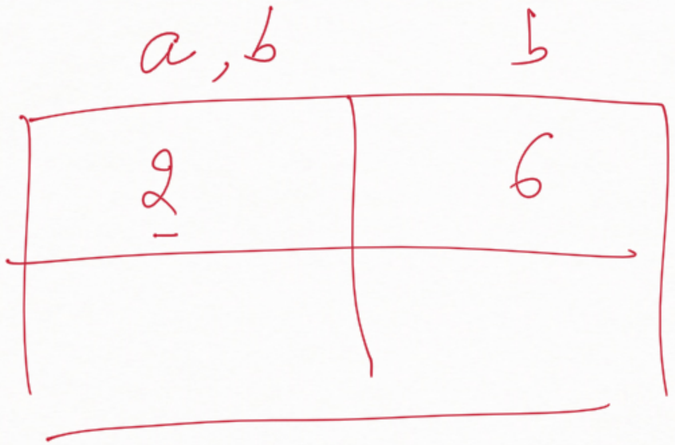
other methods

- index() → accessing index value
- count() → occu of any ele
- reverse() → reve the element
- sort() → sorting into ascend or descend order
- copy() →

$a = 2$

$b = 6$

$c = 2$



```
a = [11, 22]

b = [33, 44]

c = a

a.append(24)

c = a.copy()
```