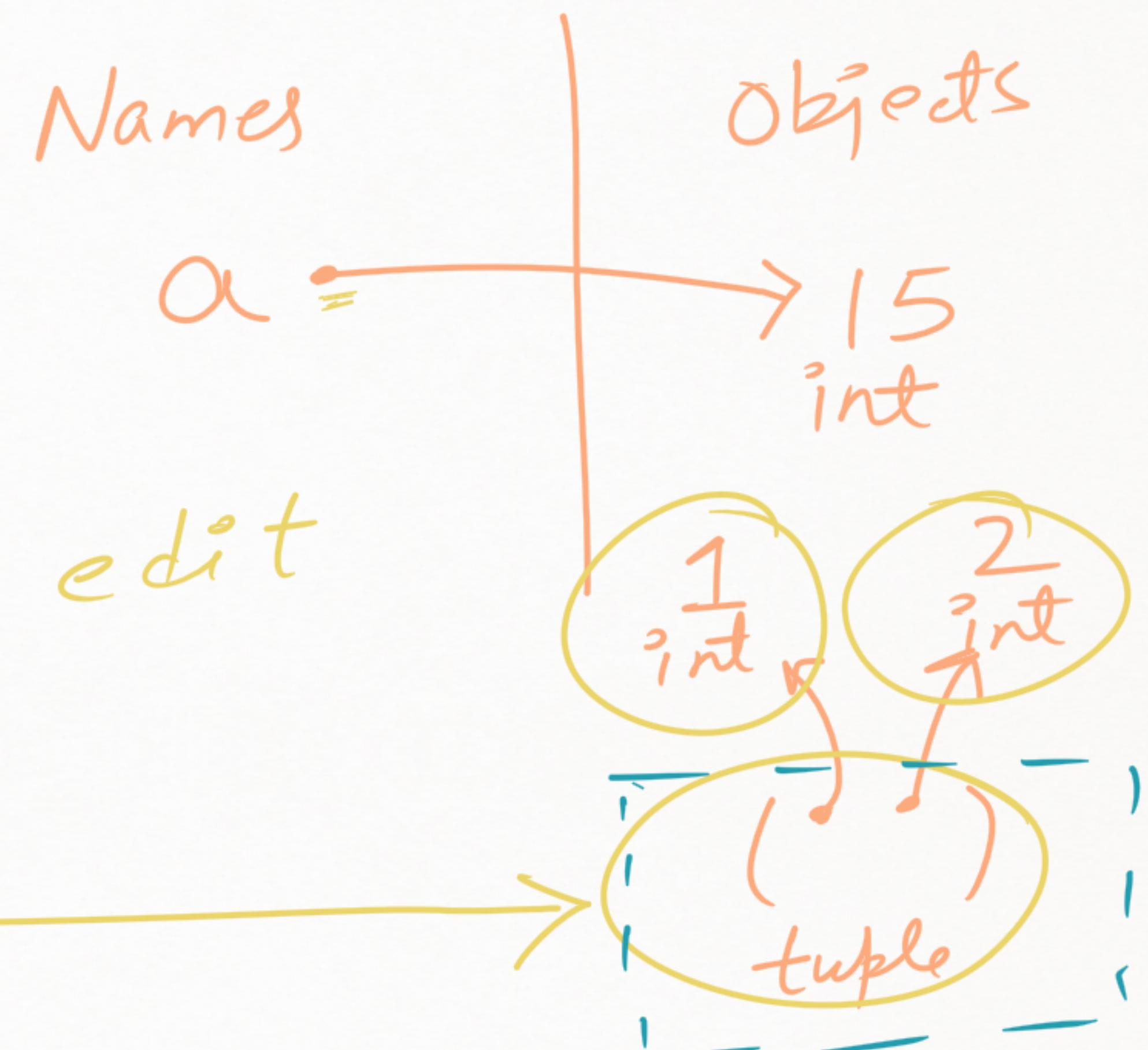


$a = 15$

$b = (1, 2)$ ✓

Immutable \Rightarrow 1. can not edit
that object

Tuple is Immutable



$a = ([1, 2], 3)$

Total
5
objects

Name

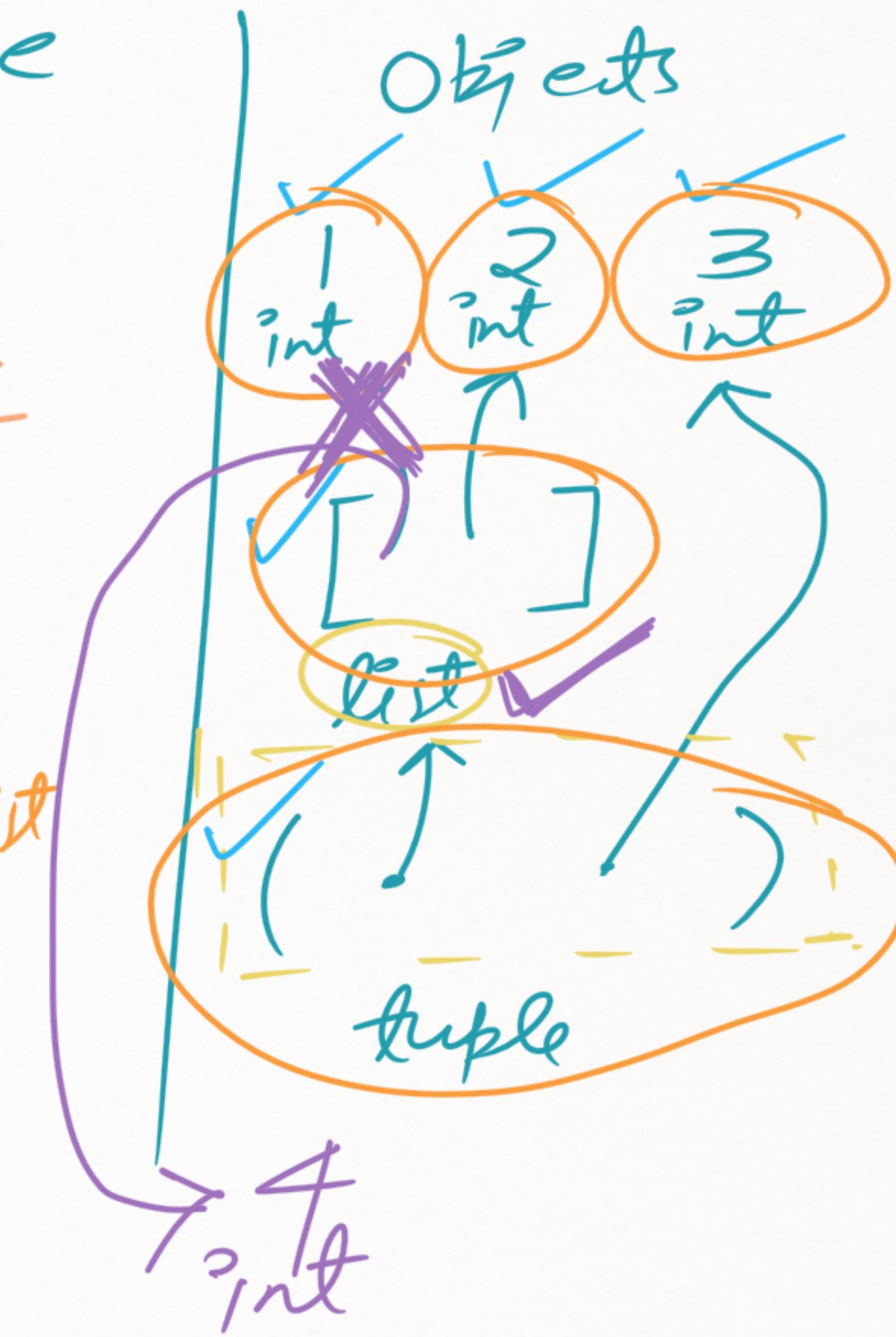
Tuple is immutable

List is mutable

$a[0]$ is a list ✓ $[1, 2]$

$a[0][0] = 4$ // we are editing the list

print(a) // $([4, 2], 3)$



What is meant by editing allowed.
a tuple is not

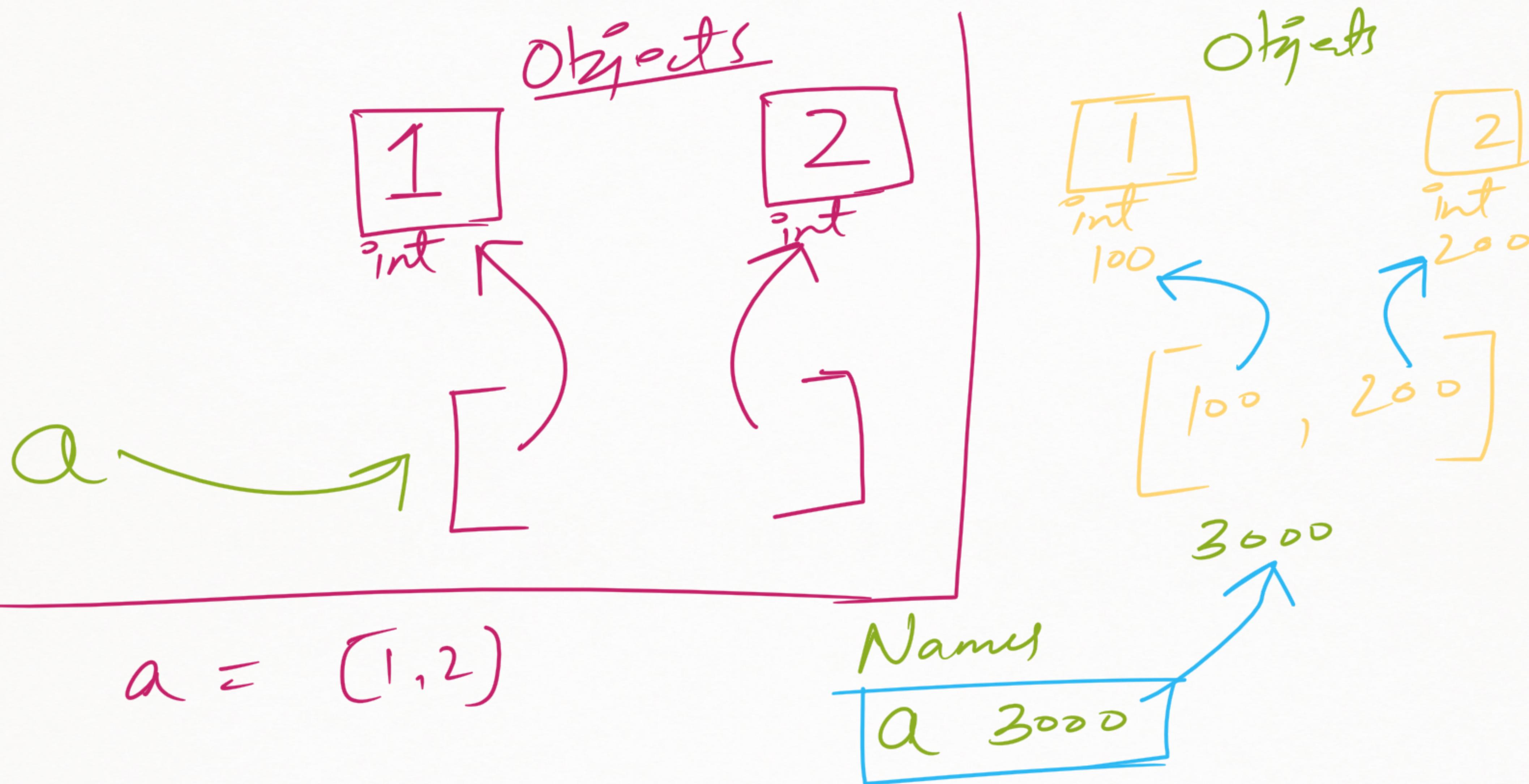
$$a = ((1, 2), 3)$$

Numbers (int, float) are also
immutable

What is stored in
tuple object?
 $([4, 2], 3)$

This
is
not
allowed

100 108 120
1 2 3
4 500
let 180
 $(500, 108)$
 $(180, 120)$ ✓
2000 tuple
[7, 8, 9]
edit



Write code in Python 3.6

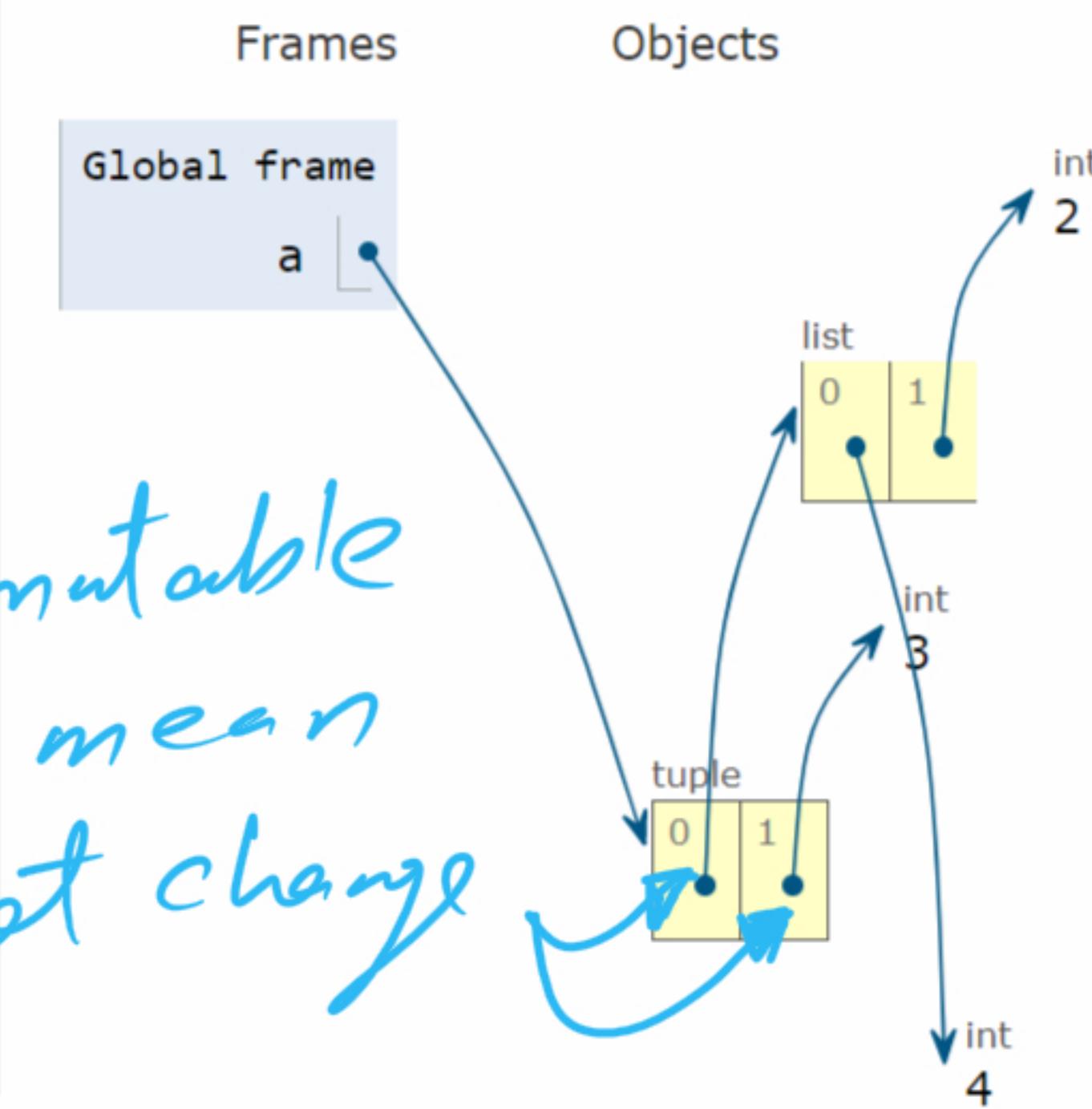
```
1 a = ([1,2],3)
2
3 print(a[0])
4
5 print(a[0][0]) # reading a value
6 print(a[0][1]) # reading a value
7
8 a[0][0] = 4 # writing or editing something.
9
10 print(a)
11
```

(drag lower right corner to resize code editor)

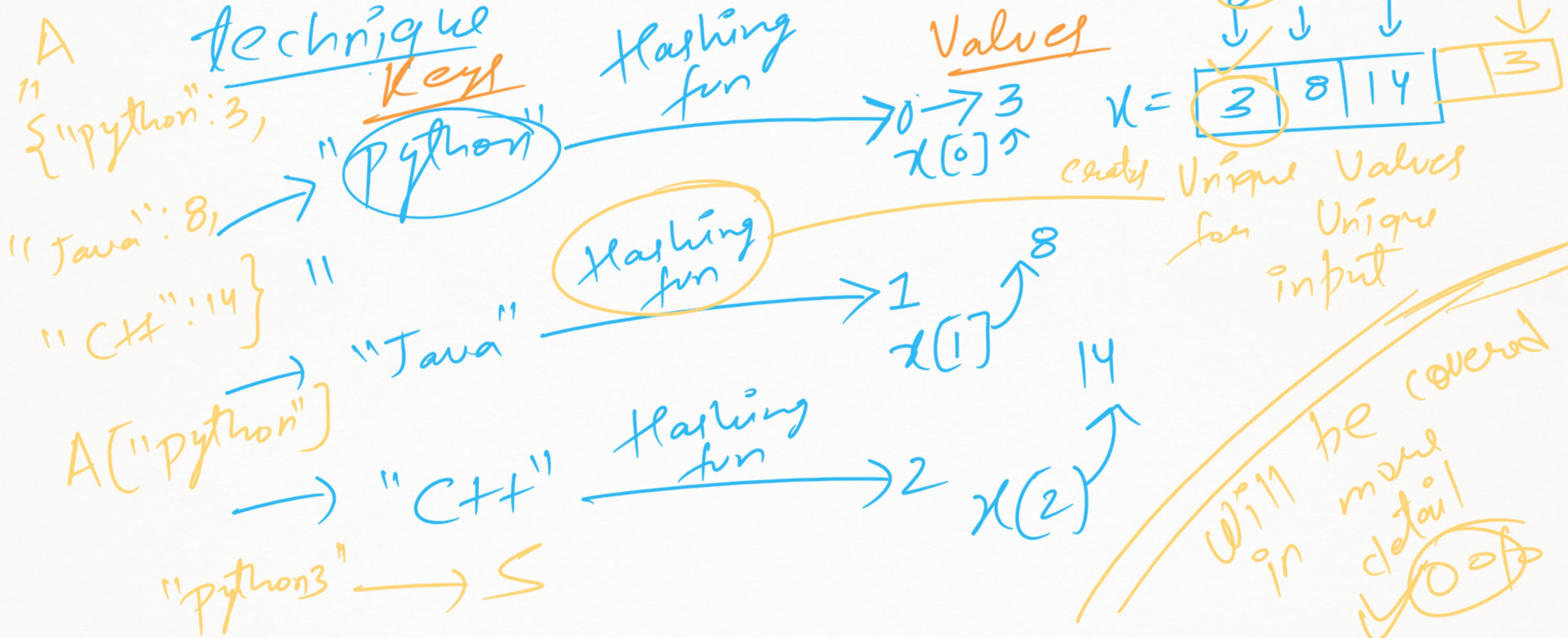
Print output (drag lower right corner to resize)

```
[1, 2]
1
2
([4, 2], 3)
```

when I say
tuples are immutable
I basically mean
you can not change



How dict works internally # Dict stores data with Hashing



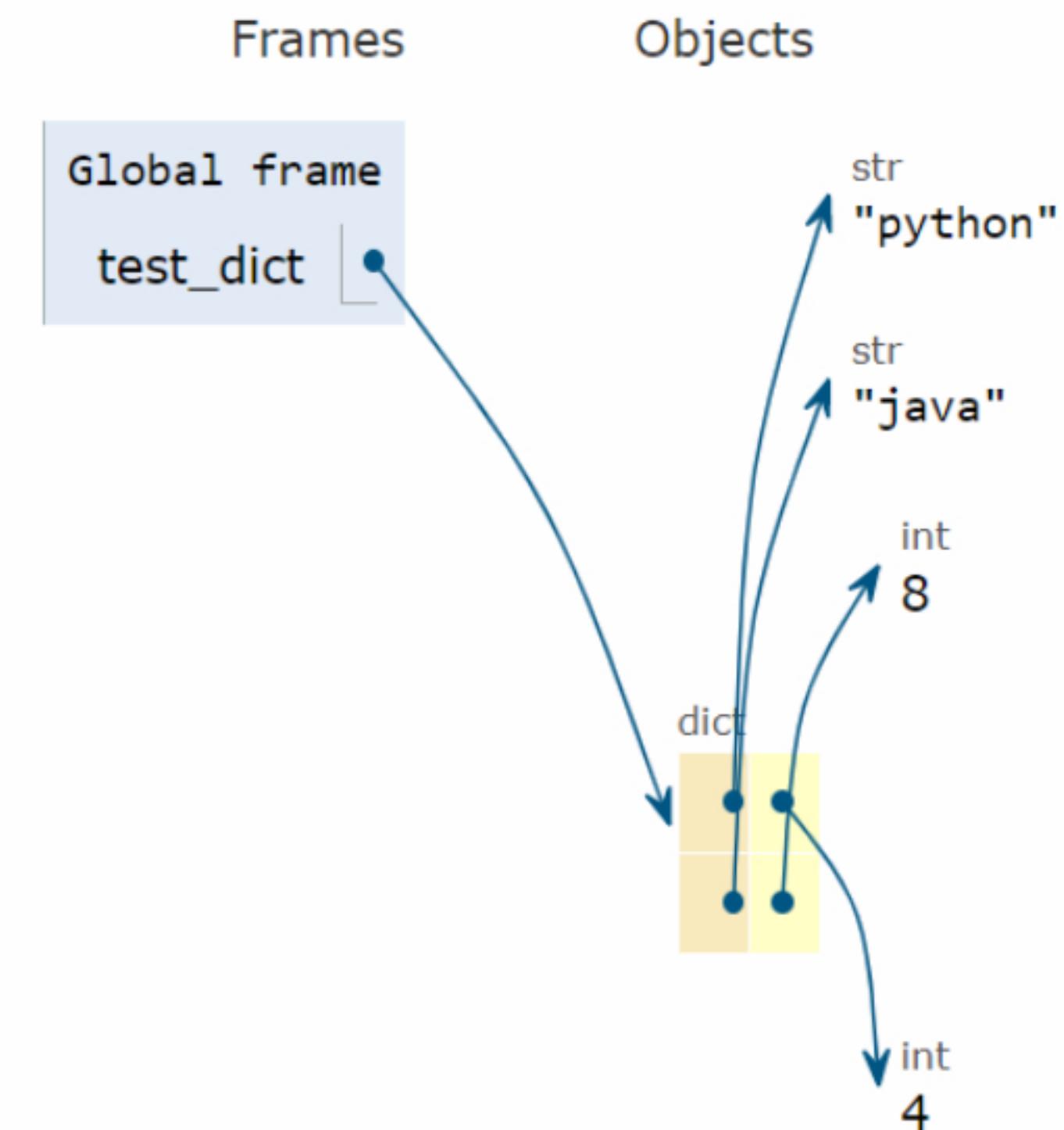
Write code in **Python 3.6**

(drag lower right corner to resize code editor)

```
1 test_dict = {'python':3,'java':8}
2
3 print(test_dict['python']) # reading the value
4
5 ➔ test_dict['python'] = 4 # editing the value
6
7 # for changing keys:
8 #     make a new key|
9 #     and delete the old one
```

Print output (drag lower right corner to resize)

3



In []: `## Conditional Statements`

In [8]: `a = 3
if a>5:
 print(a,"is greater than 5")
else:
 print(a,"is not greater than 5")`

Part of Syntax

In []:

If condition :

statements a=3, b=5

else :

statements

*Condition
colon :*

$\frac{a > 5}{\text{Part of syntax}}$

[Runs if the condition fails]

~~# Actual if else~~

if boolean :

+ statement 1

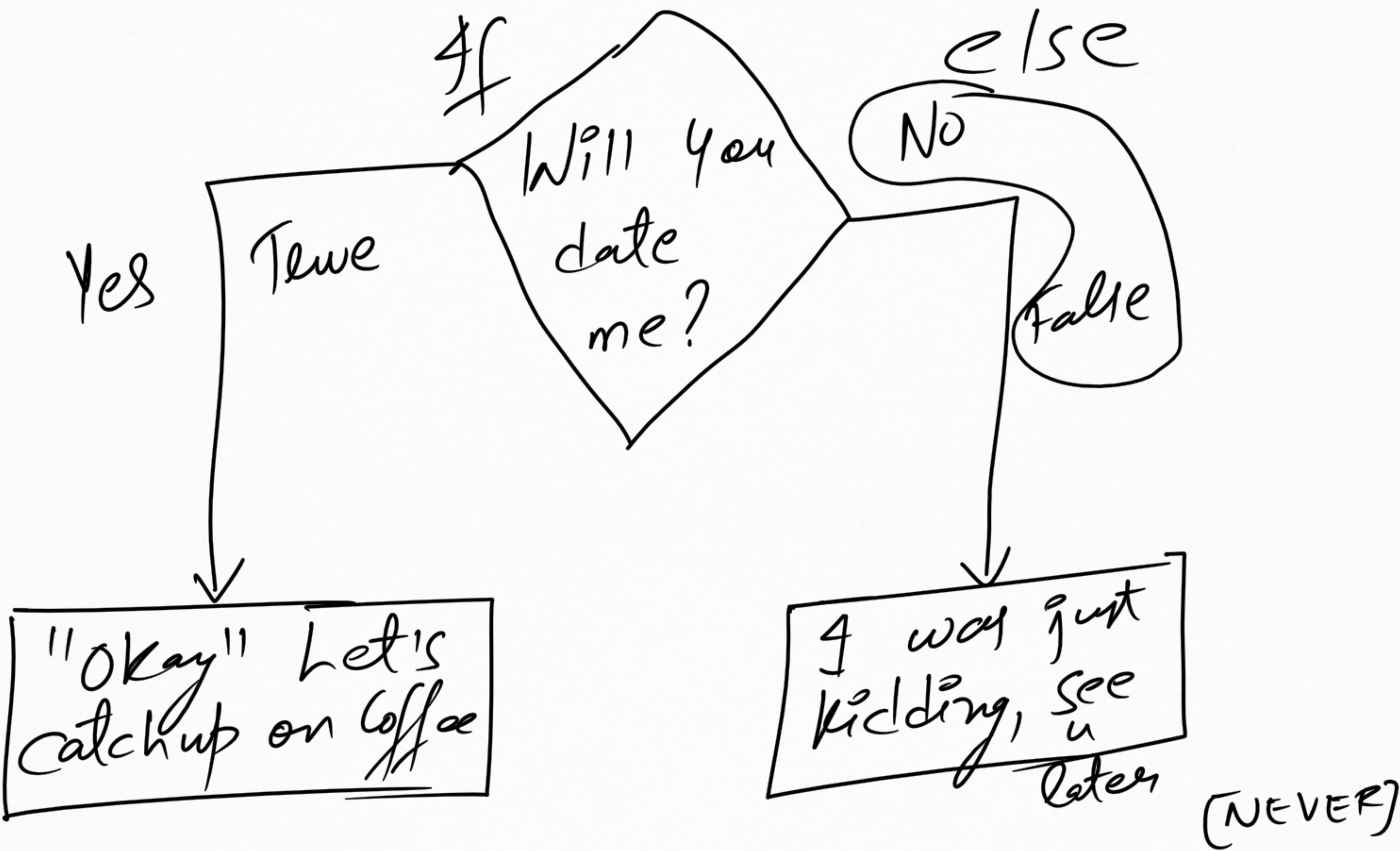
+ statement 2 etc ✓

Indent action → 4 spaced

else:

+ statement 3

+ statement 4



In [31]:

```
print("You:", "Can we Date??")
reply = 'yes'
print("X: ", reply)
if reply == 'yes':
    print("You: See you at LOC(LOVE OVER COFFEE) near your home")
    reply2 = 'Yeah!! Sure (Heart Emojis)'
    print("X: ", reply2)
    if reply2 == 'Yeah!! Sure (Heart Emojis)': ## this is nested if inside the earlier if.
        print("You: Kissing Emojis")
elif reply == 'maybe':
    print("take your time and say ..... Yes!! :') :')")
elif reply == 'i like you as a friend':
    print("Cool!! let's go to this new movie together")
else:
    print("heheheheh!! I was just kidding!!")
```

You: Can we Date??
X: yes
You: See you at LOC(LOVE OVER COFFEE) near your home
X: Yeah!! Sure (Heart Emojis)
You: Kissing Emojis

so on....."

Block will run
if it comes out
to be True

if it
is false

then
this
will
be
and
checked

Block

this
is nested
block
and
will run
when
comes out
True