

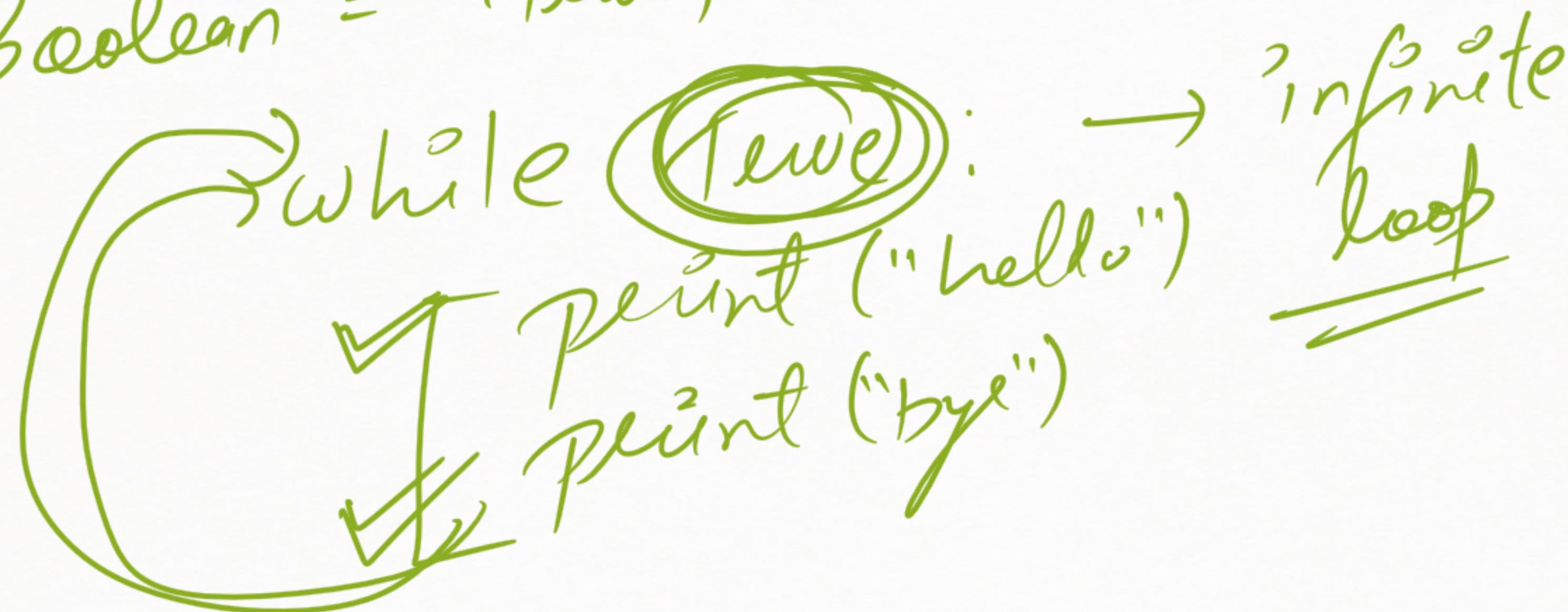
for  $i$  in range(1, 10):  
 print(i)  
  
~~for i in range(1, 10):  
 print(i)~~

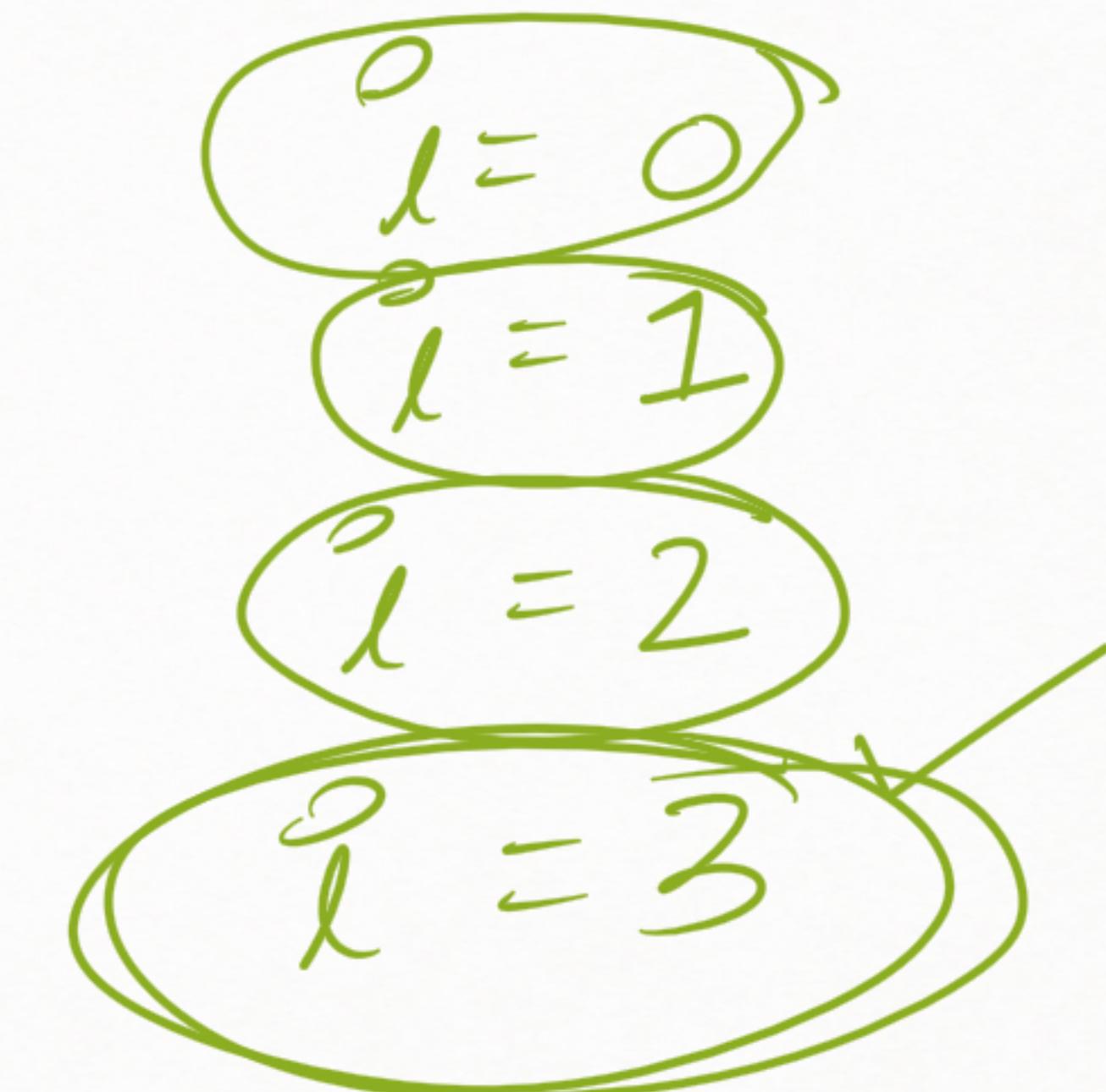
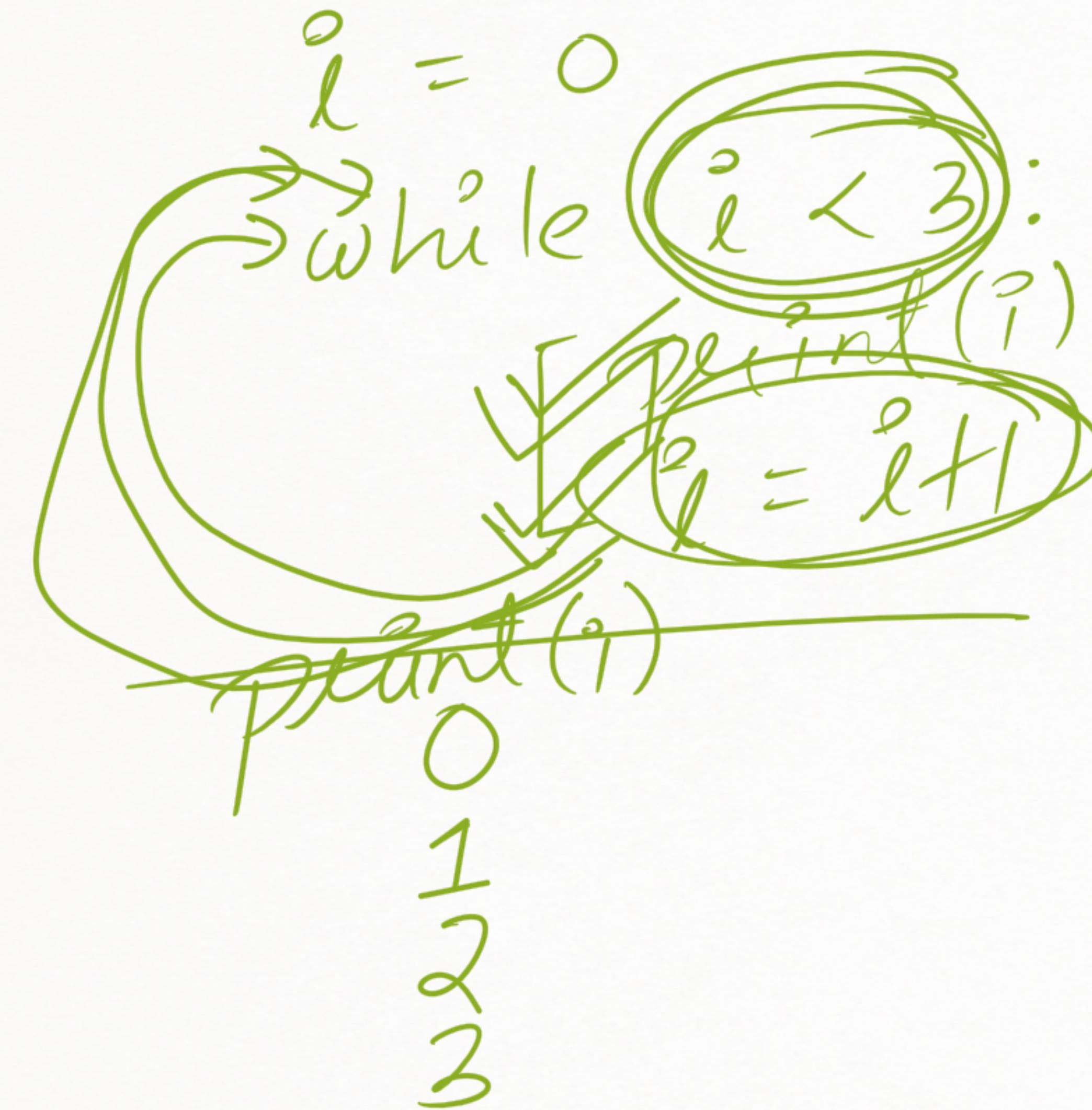
1  
3

Why do we need loops?  
to run a piece  
of code multiple times

# while loop works on a boolean  
Value.

Boolean = True, False





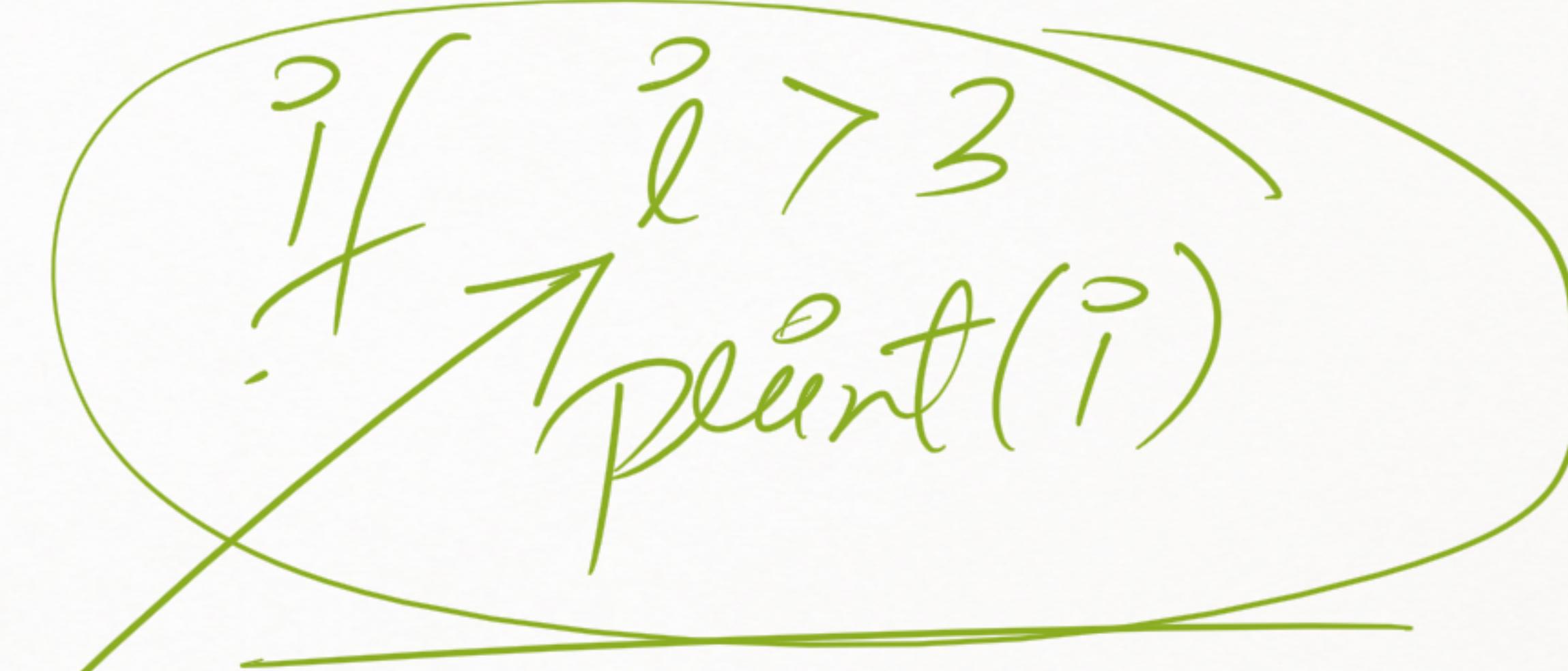
we test condition  
again until  
it



becomes  
False

we test  
the condition  
only once

$$i = 4$$



if

- for loop is derived from while loop
- for loop works on sequences list, dict, set etc.
- sequence =) range, iterables

code in Python 3.6

(drag lower right corner to resize code editor)

```
import copy

test_list = [1,2,3,4,5]

test_list_duplicate = copy.deepcopy(test_list)|
```

: that just executed  
at line to execute

Frames

Objects

Global frame

copy  
test\_list  
test\_list\_duplicate

module instance

int  
1

int  
2

int  
3

int  
4

int  
5

