

In [37]: fruits = ['kiwi', 'apple', 'mango', 'banana', 'orange']
print(fruits[1:4])

['apple', 'mango', 'banana']

In [38]: cars = ['breeza', 'creta', 'harrier', 'mustang-gt', 'thar']
print(cars[0:2])

['breeza', 'creta']

Cars [startindex : Stopindex]

Never reached

```
: fruits = ['kiwi', 'apple', 'mango', 'banana', 'orange']
print(fruits[0:5:2])
['kiwi', 'mango', 'orange']
```

Start: stop: jump

```
: cars = ['breeza', 'creta', 'harrier', 'mustang-gt', 'thar', 'xuv 700',
          'fortuner', 'seltos', 'tiago', 'polo', 'verna']
print(cars[0:11:3])
['breeza', 'mustang-gt', 'fortuner', 'polo']
```

$0 \rightarrow 2 \rightarrow 4 \rightarrow 6$

$0 \rightarrow 3 \rightarrow 6 \rightarrow 9 \rightarrow 12$

Kiwi mango orange

breeza mustanggt fortuner
polo

```
0   /   2   3   4   5  
cars = ['breeza', 'creta', 'harrier', 'mustang-gt', 'thar', 'xuv 700',  
        'fortuner', 'seltos', 'tiago', 'polo', 'verna']  
print(cars[3:6:4])  
print(cars[3:6:3])
```

3 → ~~7~~

mustang-gt

3 → 6

mustang-gt

start : Stop : Jump

3 : 6

: 4

3 → ~~7~~

mustang-gt ✓

```
-11 -10 -9 -8 -7 -6  
cars = [ 'breeza', 'creta', 'harrier', 'mustang-gt', 'thar', 'xuv 700',  
        'fortuner', 'seltos', 'tiago', 'polo', 'verna' ]  
print(cars[-5])  
print(cars[-1])
```

seltos
verna

```
-5 -4 -3 -2 -1  
fruits = [ 'kiwi', 'apple', 'mango', 'banana', 'orange' ]  
print(fruits[-3])  
print(fruits[-5])
```

mango
kiwi

Negative indexing

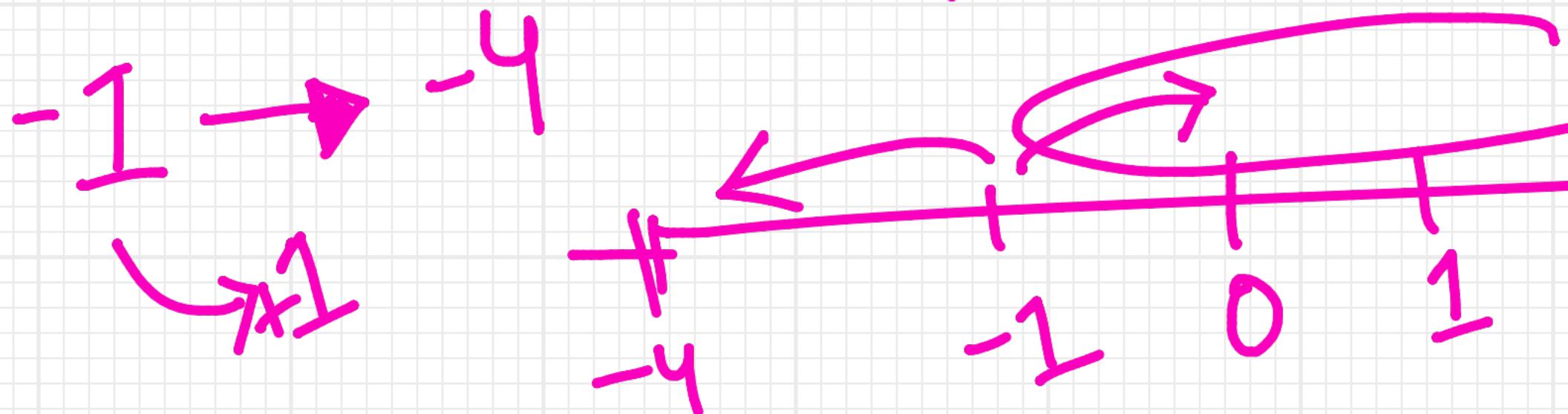
Negative Slicing

```
-5 -4 -3 -2 -1  
fruits = ['kiwi', 'apple', 'mango', 'banana', 'orange']  
print(fruits[-1:-4])
```

By default Jump = 1
Empty list

```
-5 -4 -3 -2 -1  
fruits = ['kiwi', 'apple', 'mango', 'banana', 'orange']  
print(fruits[-1:-4:-1])
```

['orange', 'banana', 'mango']



Negative Slicing

```
-5      -4      -3      -2      -1  
fruits = ['kiwi', 'apple', 'mango', 'banana', 'orange']
```

```
print(fruits[-1:-4])
```

[]

empty

By default jump = +1

```
-5      -4      -3      -2      -1  
fruits = ['kiwi', 'apple', 'mango', 'banana', 'orange']
```

```
print(fruits[-1:-4:-1])
```

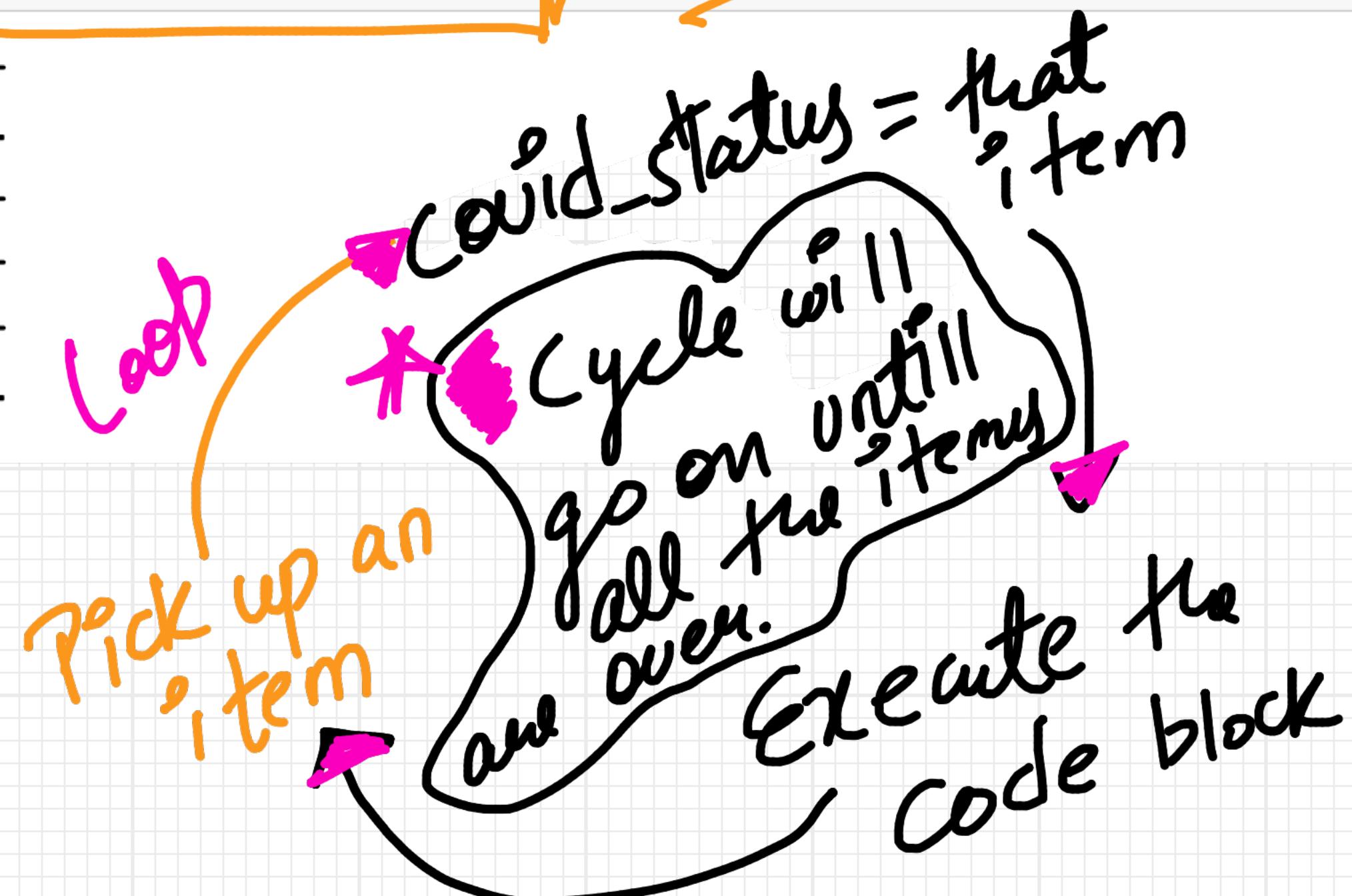
['orange', 'banana', 'mango']

```
In [57]: bus = ['covid+', 'covid-', 'covid+', 'covid+', 'covid+', 'covid-']
```

```
for covid_status in bus:  
    print(covid_status)
```

covid+
covid-
covid+
covid+
covid+
covid-

variable / name



```
: bus = [10, 20, 30, 40, 50]
```

```
for dinesh in bus:
```

```
    print(dinesh)
```

```
    print('happy '+str(dinesh+1000))
```

Loops

10	
happy	1010
20	
happy	1020
30	
happy	1030
40	
happy	1040
50	
happy	1050

1st iteration

2nd iteration

3rd iteration

4th iteration

5th iteration

62]:

```
x = [100, 223, 403, 308, 757, 786]
```

```
for i in x:  
    if i%2 == 0:  
        print(i, 'is even')  
    else:  
        print(i, 'is odd')
```

100 is even
223 is odd
403 is odd
308 is even
757 is odd
786 is even

How many times this code executes?

≥ 6 ✓

["Kiwi", "apple", "mango"]

for mohit in fruits:

Python code
Indentation