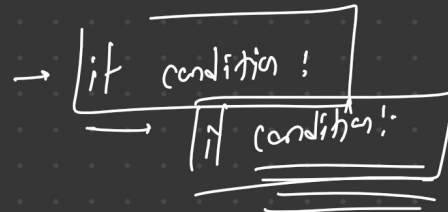06-04-2025

* Nested if-else
* Advance Data Types
* Loop

if condition
_____
_____
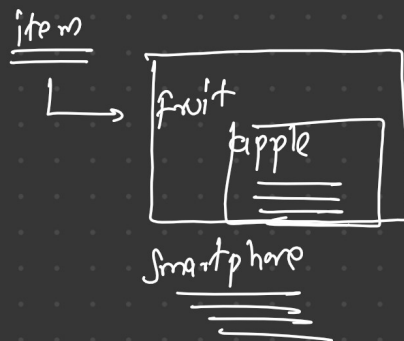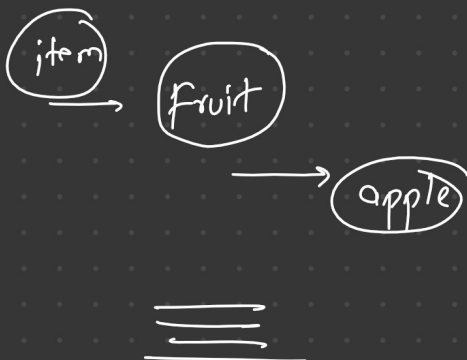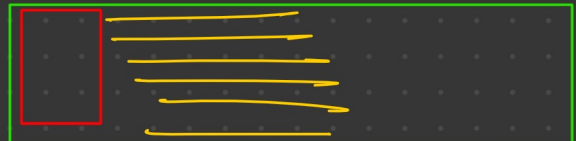_____

→ if condition !
    → if condition :
      _____
      _____

else
    _____
    _____

if
elif   → if condition !
else   if condition :

item → fruit
          → apple
_____

item
  └→ fruit
      apple
      _____

smartphone
_____

Tr

il it it it it ip

pl .
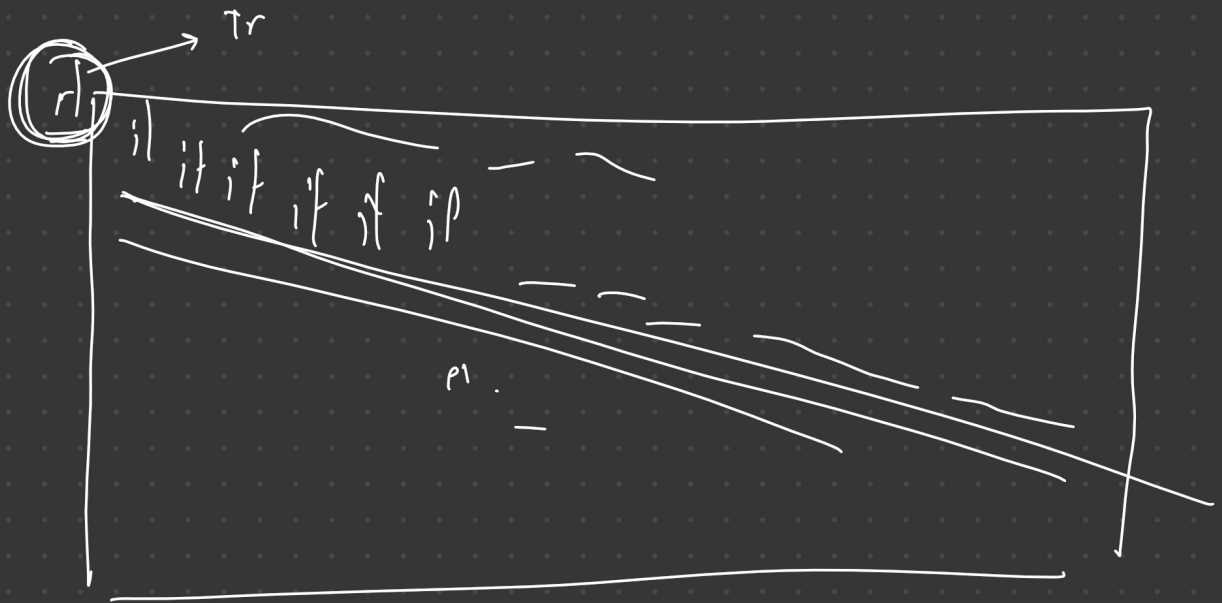
account → 100k$ car → 127k $

dealer

il you have man

what car ?

Amazen —PS5

① Check Balance
② check producle

① Check Balance
② Check poduct

list

$a = [\quad]$

$a = [1] \xrightarrow{\;\times\;} a = [1, 2]$

* Accepts duplicate values
* Accepts multiple datatypes

$*\quad$ a.append($\underset{\text{value}}{\downarrow}$) $\longrightarrow$ add values to your list

$a = [\quad]$

$a = [0]$

$a = [0, 0]$

$a = [0, 0, 1]$

$\longrightarrow$ a.append ([ ] $\rightarrow$ $\circlearrowright$

$\longrightarrow$ a.apped (1)

pos d 0 : 2
element : 6

$a = [\quad \underset{①}{"abc"} , \quad \underset{②}{"Mona1"} , \quad \underset{③}{0} , \quad \underset{④}{1} , \quad \underset{⑤}{100} , \quad \underset{⑥}{102.82}]$

⑥ $\rightarrow$ no of elements

positon $\rightarrow$ 0

5

$\underset{0}{①} \quad \underset{1}{②} \quad \underset{2}{③} \quad \underset{3}{④} \quad \underset{4}{⑤} \quad \underset{5}{⑥}$

a = [   ] → list with 1000 element

0 , n-1

0   1000 -1   999 → 1000

[0 | 1 | 2 | 3 | 4 | 5]

elements : 6   0 → 6
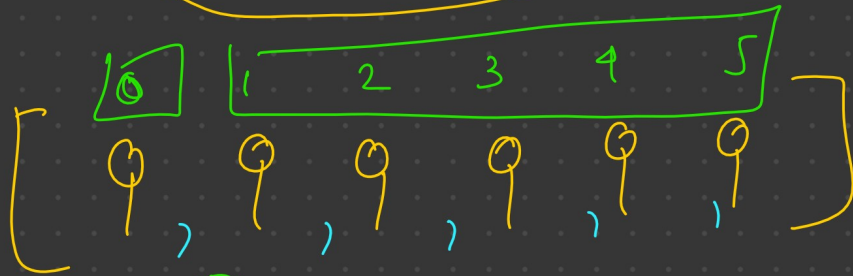
index : 6   [0 - 5]   1

0 1 2 3 4 5   [0 - 5]
↑ ↑ ↑ ↑ ↑ ↑
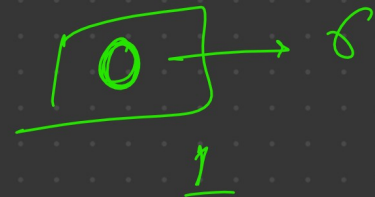
len (list variable)

a = ["monal" , 9827410000 , "abc" , "123"]
       0   1   2   3
      -4   -3   -2   -1

len(a)
↓
4
index_start = 0
index_end = n-1
        = 4-1
        = 3

a = [   ]

→ 0
← -1
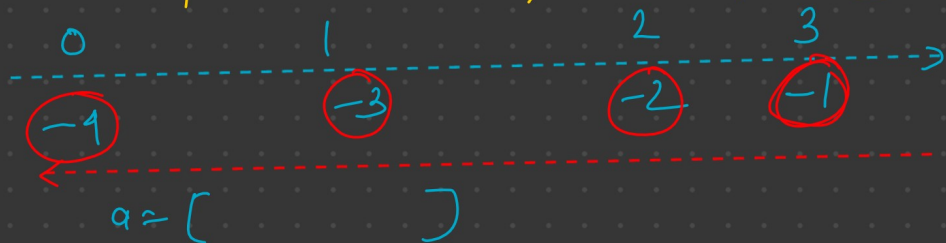
left → right → 0
right → left → -1

list slicing

top ①

Death ②
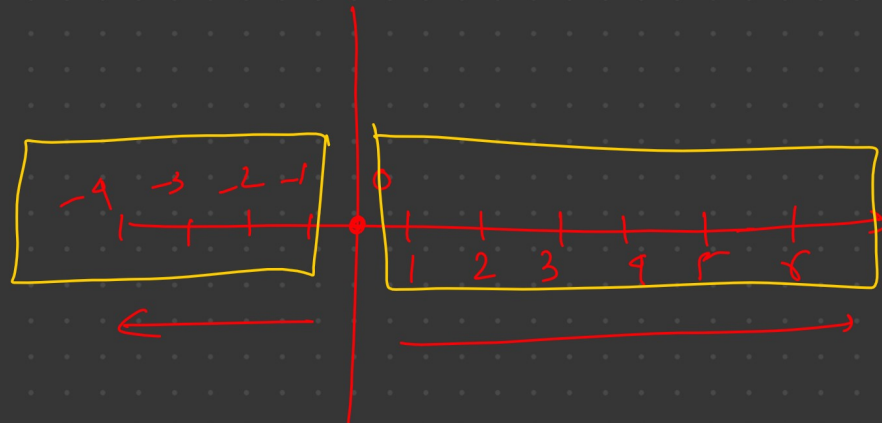
parts of original fruit
slice ↗

X → don't focus on how
many parts.

a = [0 1 2]

inclusive
a [0 : 2] → exclusive

9 9 9 9 9
1 10 20 30 2

going
everyone
excluding 20:

5

a = ["manal" , 1 , 2 , 10 , "Hello"]
              1   1   1   1

5
↑

a [0 : 3] → [0 , 1 , 2 , ③]

a [start : end (exclusive)]

-3   :   -1

-9   (-3) (-2) (-1)

right to left

0 : 3
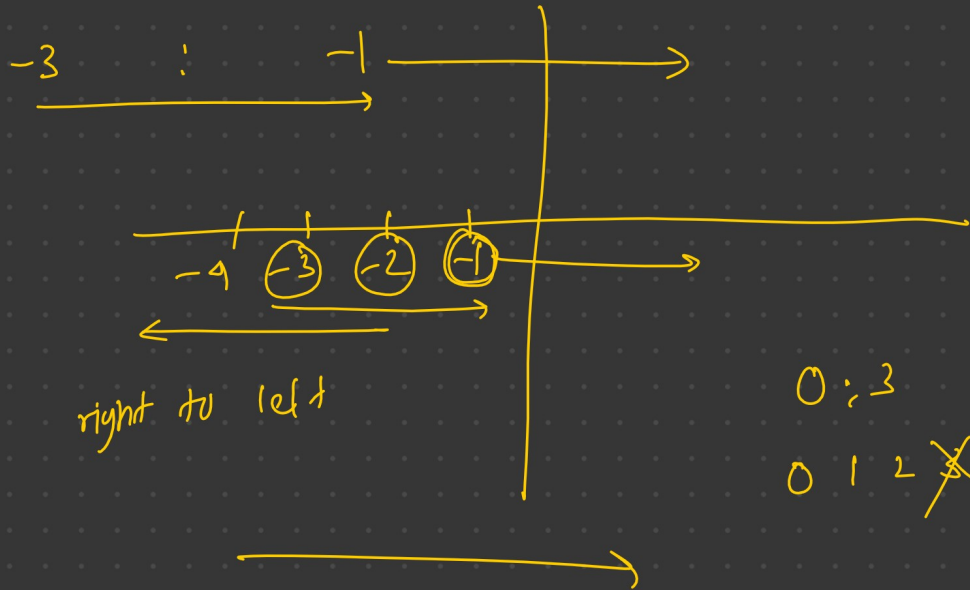
0 1 2 ~~3~~

0 1 2 3 4   5   6   (7)   8

[0, 1, 3, 4, 'monal', 'ashar', 'heartine', 'enjoy', 'nikhil']

-9 -8 -7 -6 -5   -4   -3   (-2)   -1

0 : -2

$$a = [\quad 1, \quad 0, \quad 2, \quad 100, \quad 200, \quad [1,2] \quad]$$
$$ \quad 0 \quad 1 \quad 2 \quad 3 \quad 4 \quad 5$$

a[3]

100

a[5]

[1,2]

a[5][0]

[1,2]

1

[1]

2

a[5][0] → 1

a[5][1] → 2

$a = [\quad [0, \quad [0, 1, 2] \quad] \quad]$

a[0][1][2]

$a = [1]$

$a = [[1,2]]$

1

P.S

Create a varible called patient_details :

    take list as input & store patient info :

      ⟶ name, place, email, age

when asked for patient details use id to get the
name & age only.

Assignment 2

Problem:
1. Create a single variable called patient_details:
2. Take a list as input & store patient info: name, place, email, age.
3. When asked for a patient's details, use the patient ID to get the name and age only.

Hint* - This requires a new code / function that we have not learned yet. You are free to use any resources available to you to solve the problem.