① <u>Control version</u>

Version control.

GitHub.

H ...

Bitbucket.

→ Server
cloud
<u>Repository</u>

clone

Pull <u>Git</u>

cloning.

shayo

<u>Index</u>

0
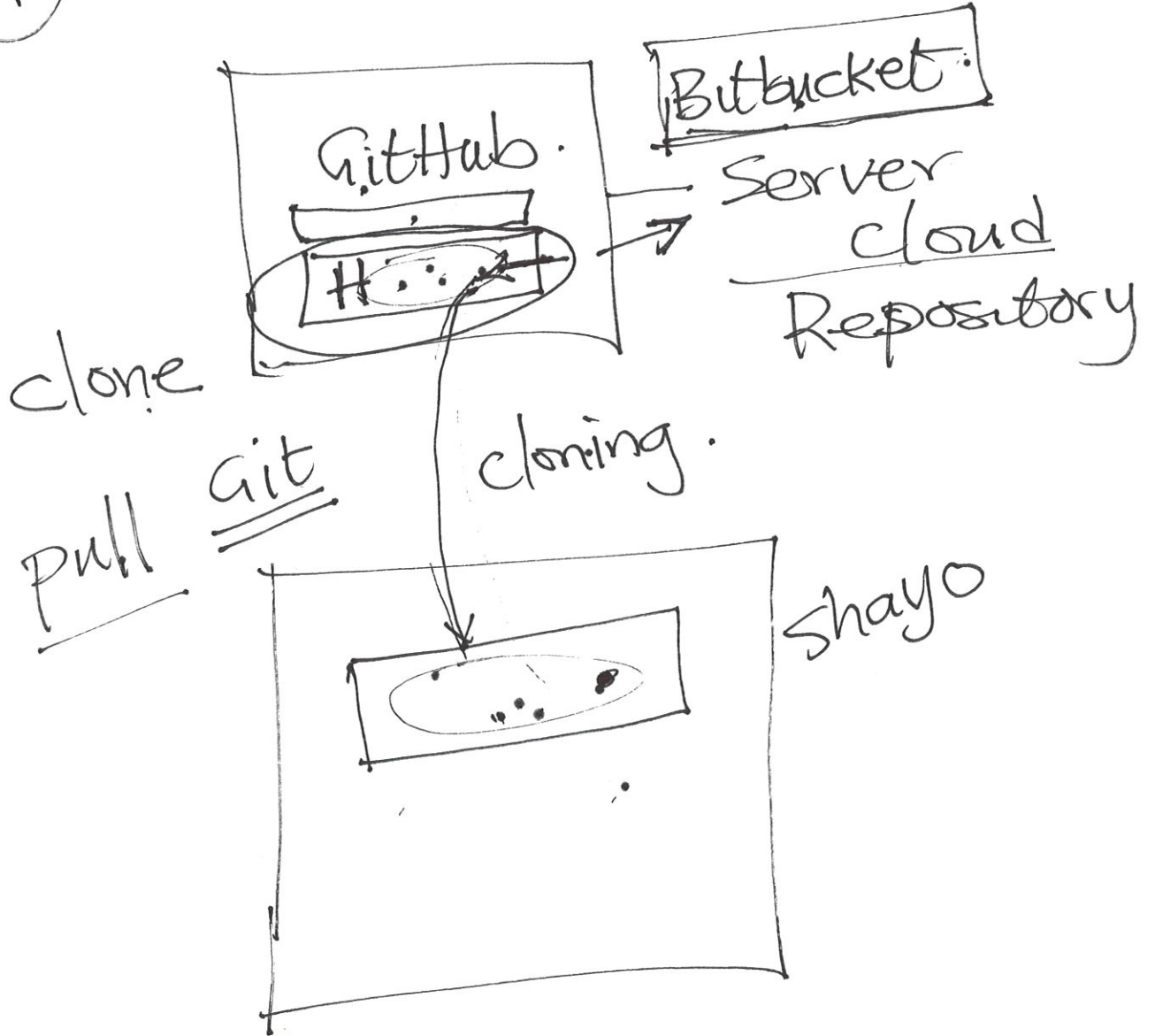
"Omolewa"

0 1 2 3 - - - .

[0]

name = "phyton" → string
          complex. ② ~~left to right~~
                      Right to left

↑ Variable name   assignment

assignment


( = )
( == )
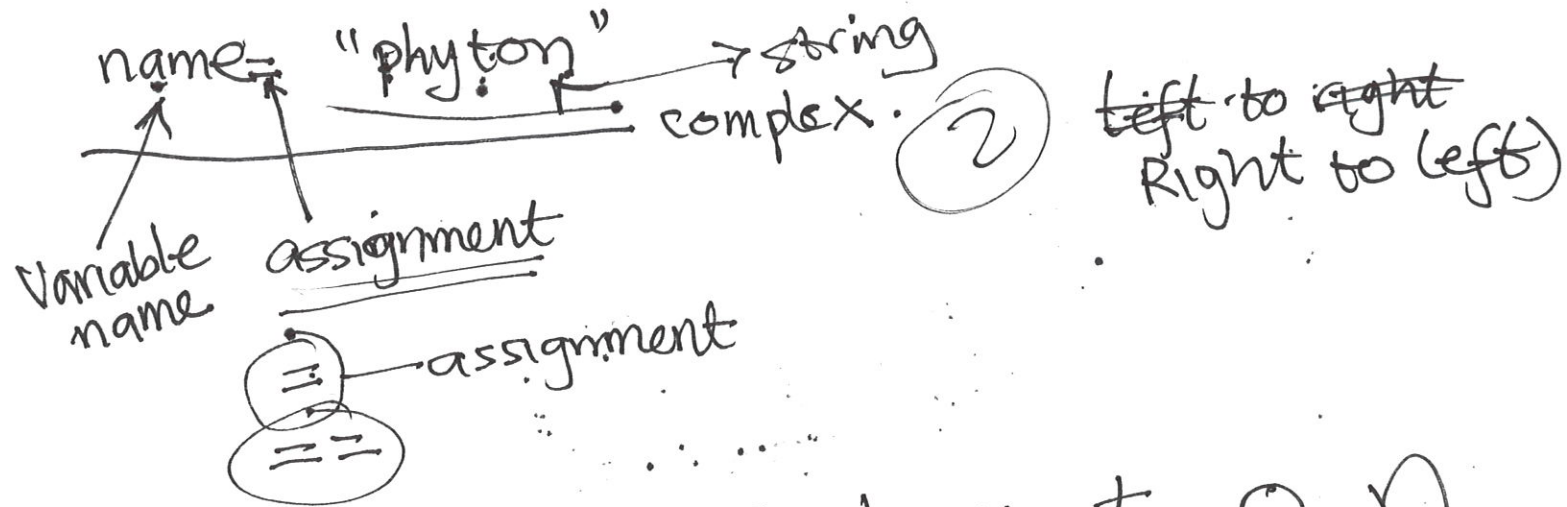
name

name[0] ⇒ "p"

name[3] ⇒ "t"

name[-1] ⇒ "n"   powerful   out-of-range   bound.

name[7] ⇒ Error.

name[5] ⇒ "n"

p   h   y   t   o   n
0   1   2   3   4   5
-6  -5  -4  -3  -2  -1

## Slicing

[start : stop : step]
   ind      ind

name[1:4] ⇒ "hyt"

name[2:6:2] ⇒ "yo"
      ↑
   2, 4, 6

p h y t o n
0 1 2 3 4 5
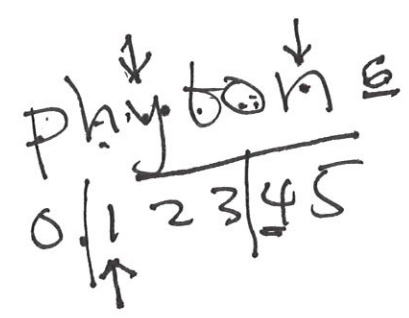
classMate = "Omolewa Ihuoma"  — 12. (3)

classMate[7:13]
⟹ "Ihuoma"

classMate[:10]
↳ beginning

classMate[2:]
↳ end

classMate[:]

classMate[::3] ⟹ "Olaua"

0 3 6 9 12

---

## Loop

### while loop:

i = 1

while i < 6:
   print(i)  } body of
   i = i+1  } loop

such that

1
2
3
4
5

x = 2
y = x
print(y) ⟹ 2

x = 2
y = x+2
print(y) ⟹ 4

x = 2  7
x = x+5
print(x) ⟹ 7

x += 5

x += x
x = x+x

# for loop.

**numbers** = [2, 5, 3, 7, 8]   List

4

for x in numbers:          x = 2.
    print(x).     } body
                    loop.  x = 5

## Nested for loop.

2
5
3
7
8

number1 = [2, 4, 6]
number2 = [1, 2, 3].

for num1 in number1:
    for num2 in number2:
        print(num1 * num2).

Dictionary

JSON file

API call

num1 = 2          num1 = 4
num2 = 1          num2 = 1

num1 = 2
num2 = 2

2
4      num1 = 2
6      num2 = 3
4