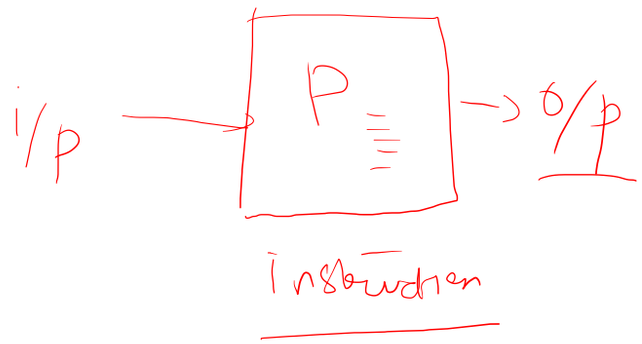
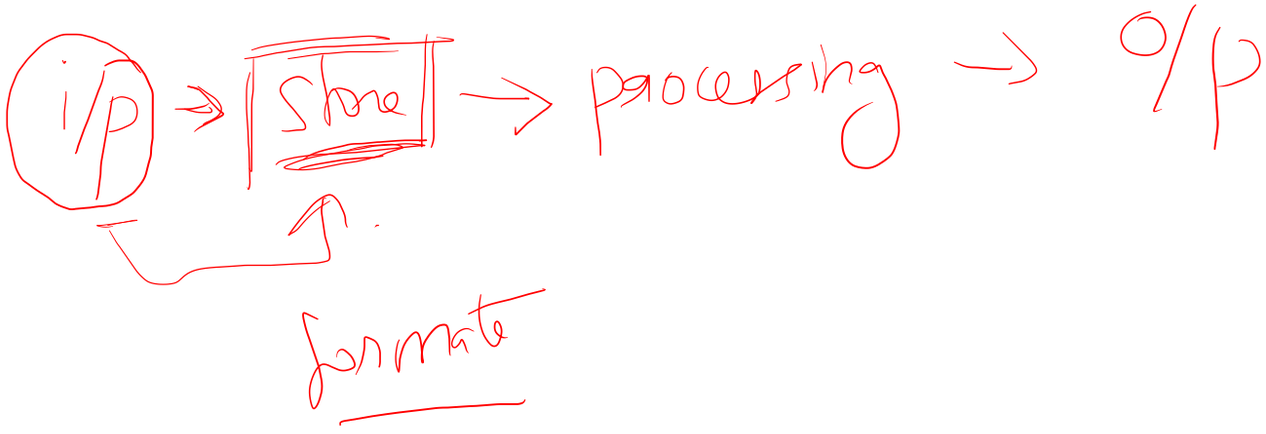
Python
↳ scripting

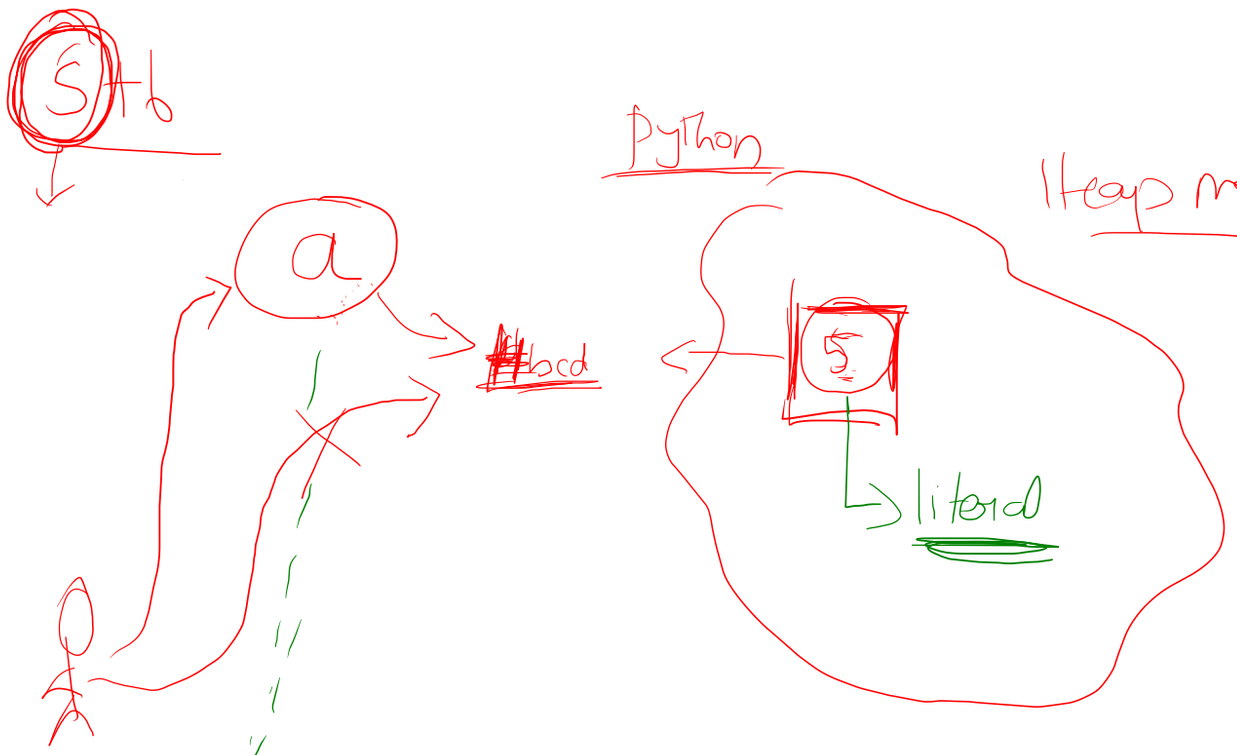
Python
- Python 2 ← 2010 X
- Python 3 → After 2010
  - ↳ 3.8, 3.7, 3.6

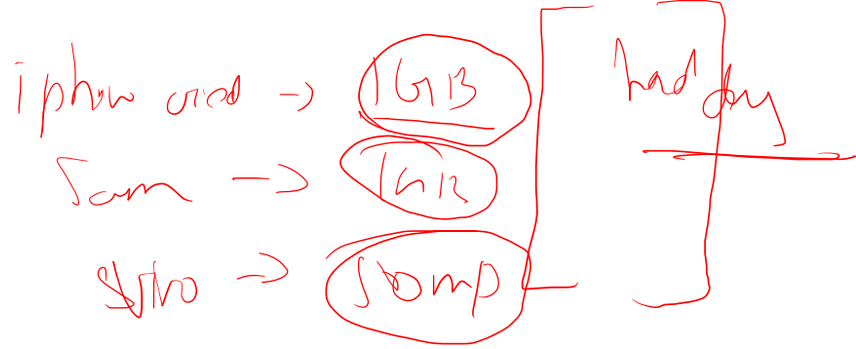


Instruction

Three sub component in program / template







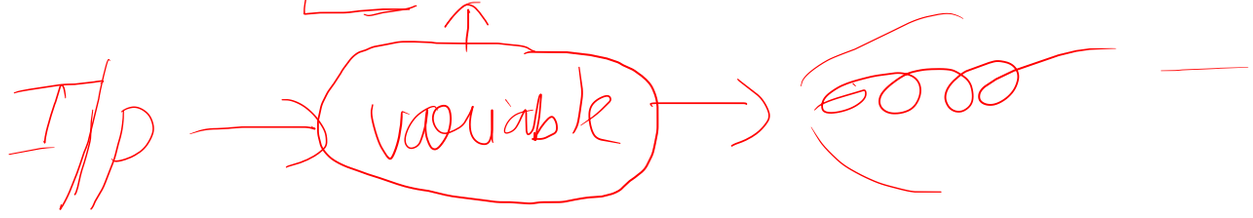
int a

int a

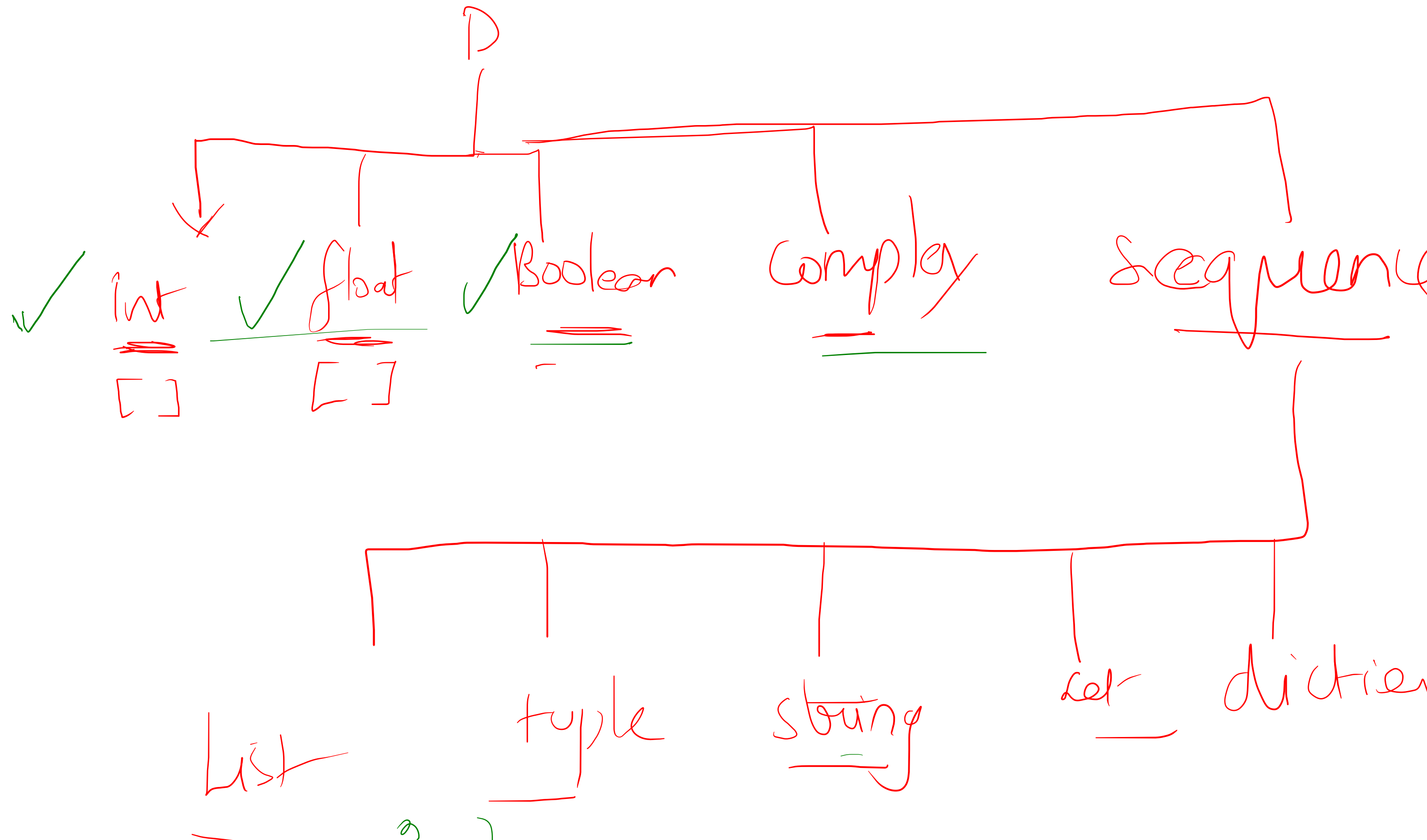
int obj

variable (or) identifier

// auto detect



a = 5 ← data type
a = 100000
a = 'b' ← char
a = 3+1j ← co
a = True



a = 1 → int

a = 10.5 → float

10.666666666775...

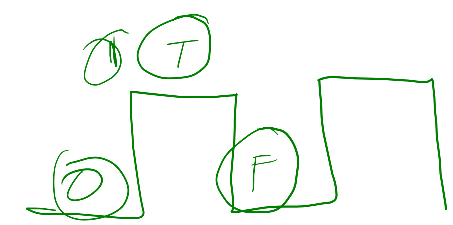
pro...

1 → true

→ True

0 → False

in → Bool



code mode of cell

Comment

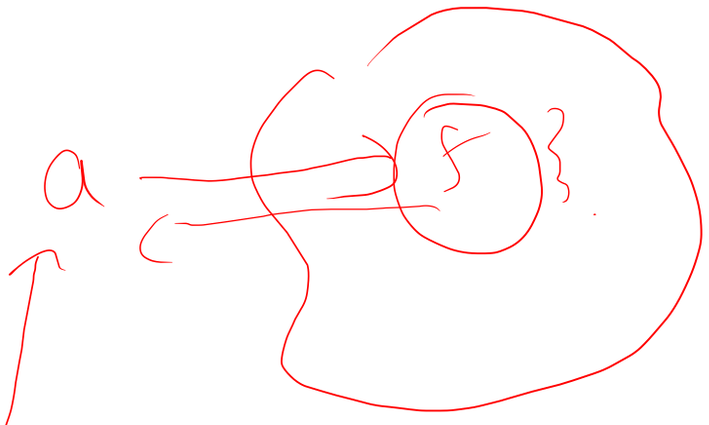
Line Comment → #

skipped by Python INT

docstring / multiline comment

'''

'''

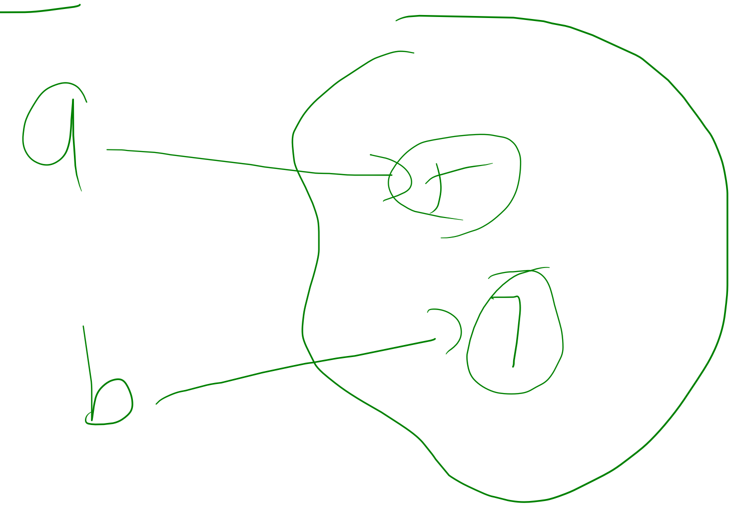


a

a = 100 (int) → a = float(100) → (float)

type conversion

Keyword →



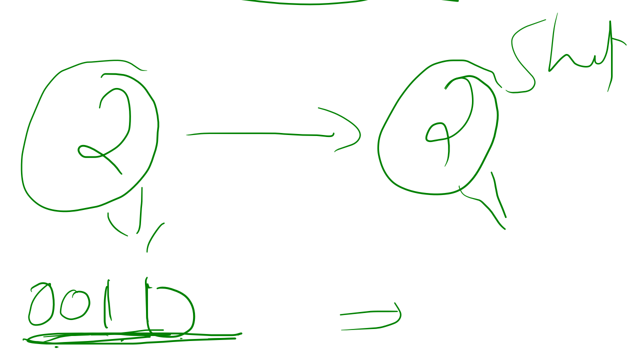
Operator

- assignment operator
- arithmetic operator
- logical operator (or)
- identity operator
- Bitwise operator
- relational operator

Operator / Expression

a is b

↳ T / F



==
!=
>
<
>=
<=

(a == b) and (b == 3)

a = 5
b = 7

a == b

↓
Boolean < T / F

a = 3

b = 3

c = 4

(or)

(a == b) || (b > c)

T | F

↓

T

Only one False is fal

& → and

|| → (or)

any one True

↓

True

5 + 6 → operand

+ → operator

5 → operand

literal or value

= 11 → int

int (low memory)

float (high memory)

5 + 6.5

11.5 → float

Arithmetic operator

+ , - , * , / , % , // , **

add, sub, mul, div, modulo (remainder), quo, power.

Expression

↳ (3+4) * (5*6) + (3/6)

PEMDAS

PEMDAS

↓

=

a = a+b → a += b

a = a+b

Bitwise

True

True

Logical

0 -> 0000

1 -> 0001

2 -> 0010

3 -> 0011

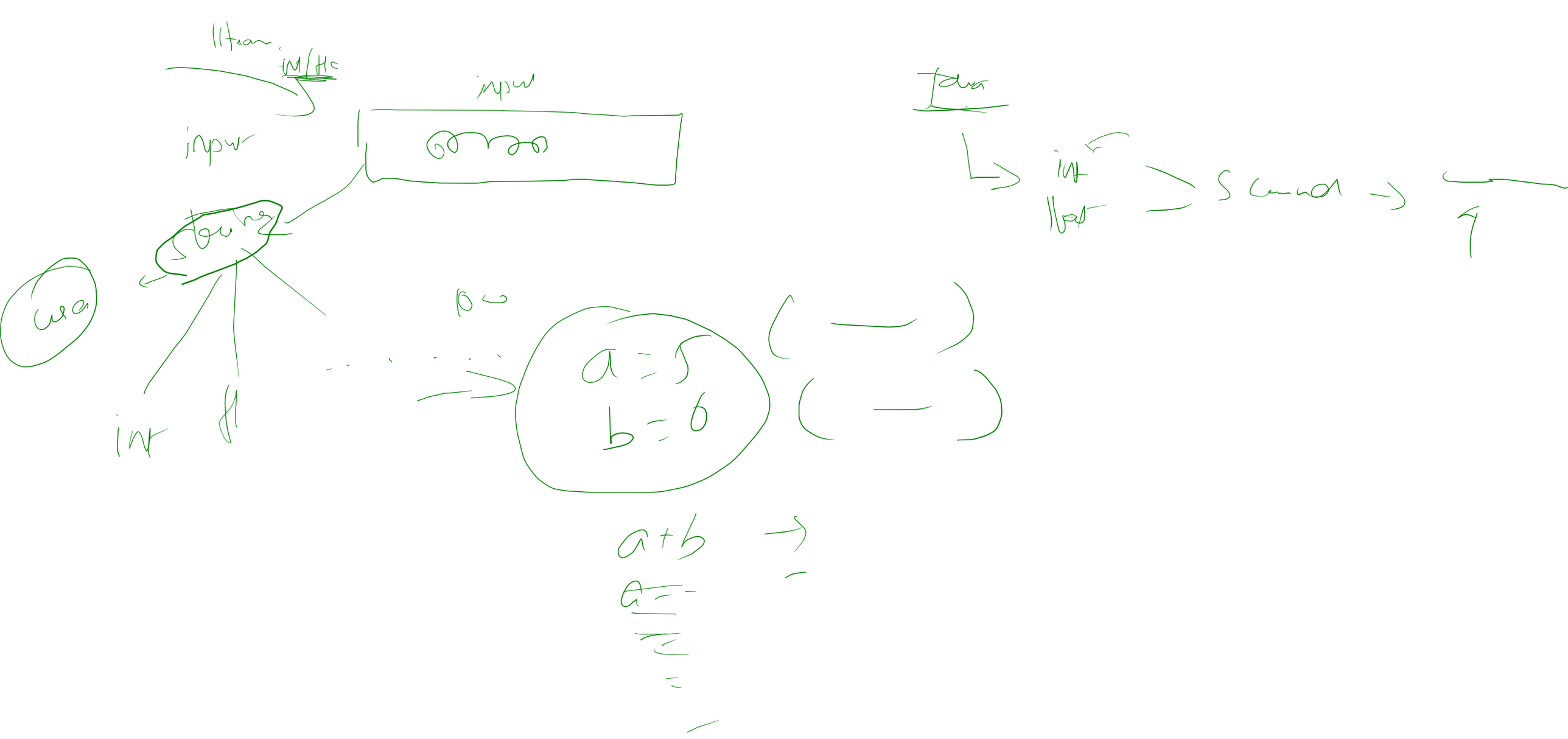
2 o/p

2

a + b

Concat

ab


a = 5
b = 6
a + b

$x = 5$

$y = 11$

$x = x + y$

$x += y$