① Resources ✓ Github mail

② ineuron platform . recorded & resources

③ Assign. + Quiz → access all you know

④ Python

```
print("Hello world")
```

Setup + Speed

Chat or Question after we stop in between

History of Python + Installed Anaconda / Collab

+"Hello world"

Topic for Today :-

0. Jupyter Notbook intro ✓
1. Python version + Data Types ✓
2. Pre defined vs User defined fn ✓ ⟹ fn
3. Print, input ✓
4. User defined fn ✓
5. Error in python ✓
6. Identifiers in python

Python 2 vs 3

2000 2008

2. → 3

2.6 ⇒ 2006

2.7 ⇒ 2010

Apps ⇒ update

2. 3.x.x

3 ⇓ ✗

2 ( )

Change entire

Python 3 ⟸ Python 2

print ("hello")

print "hello"

5/2 = 2.5

5/2 ⇒ 2

5/2.0 ⇒ 2.5

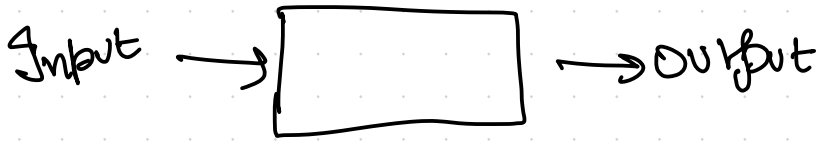
Python 3 ⇐ here

a = 1 1.4 str bool ⇒ true/false

int a = 1

↳ a = "Hello"

a =

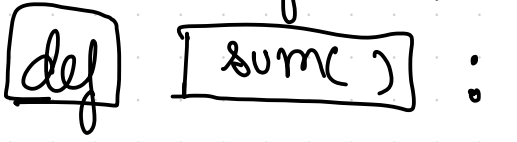


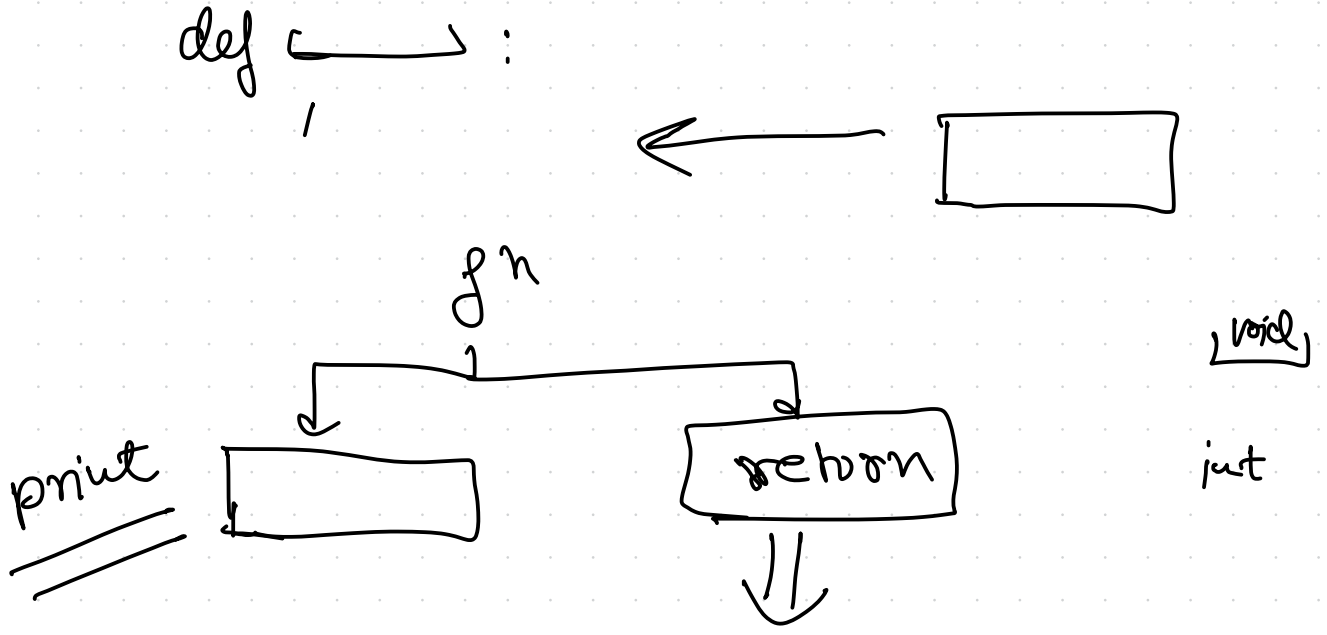
5
7

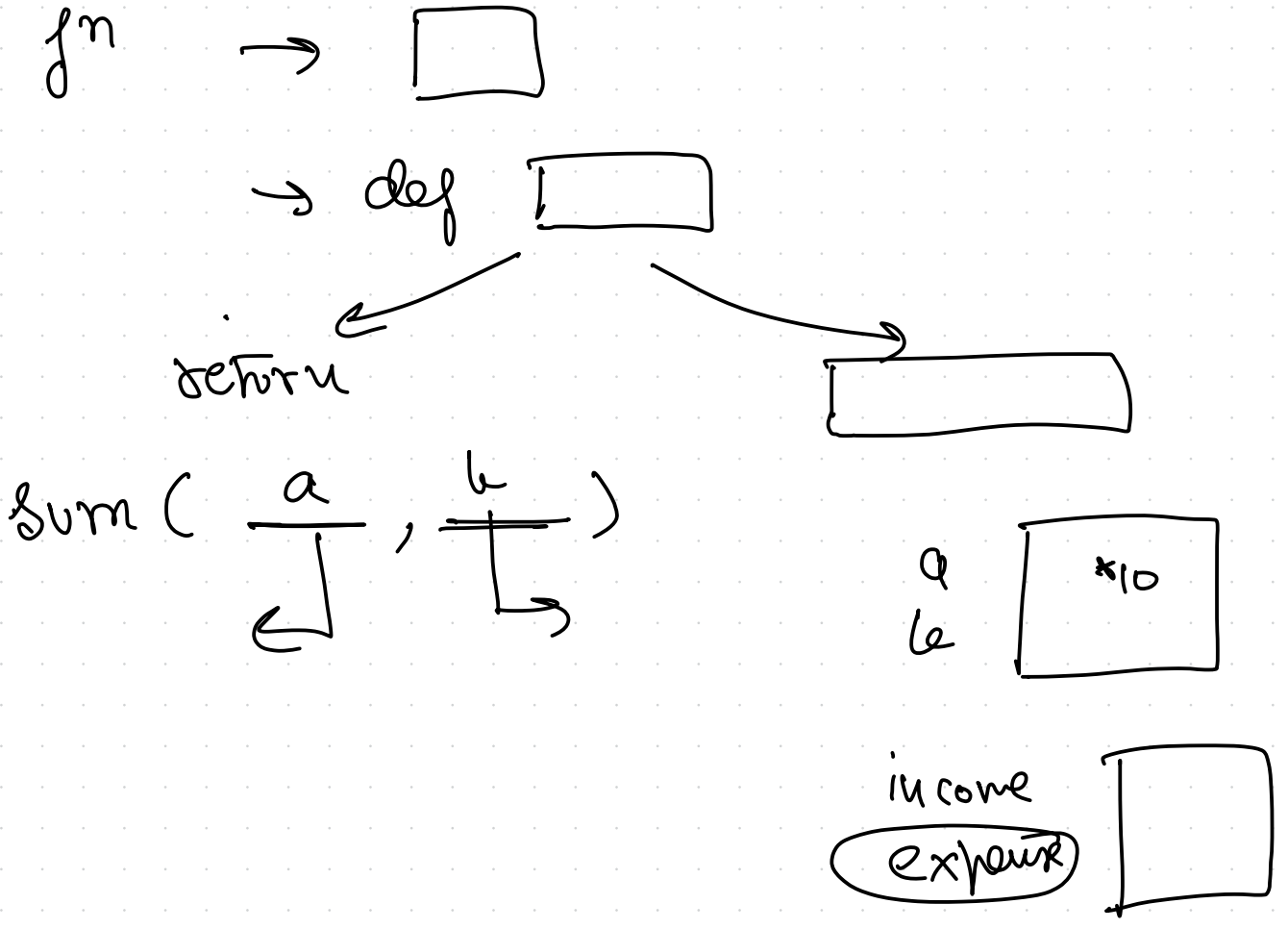
(+) less code
reusable

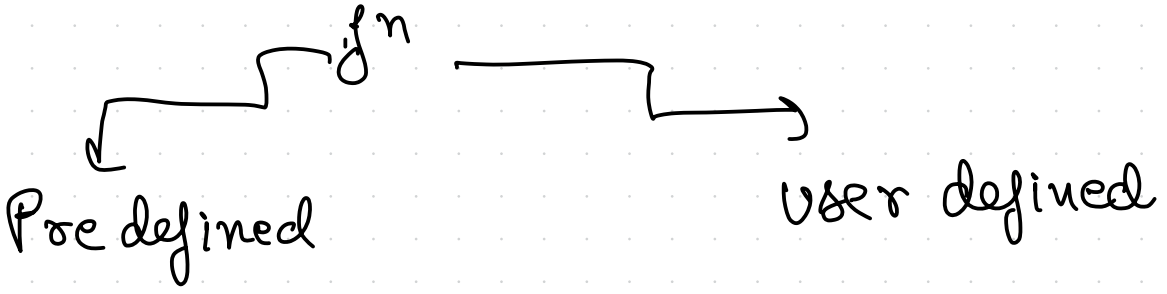
(−) little bit con

fn name




def
:
fn
void
print
return
int


fn
def
return
sum (a , b)
a
b
*10
income
expense



print( ) →

Sum( ) →

Built in fn / Predefined

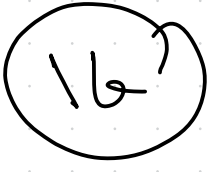
print

many fn are predefined in every language

print ( ) input ( )

\n

\t

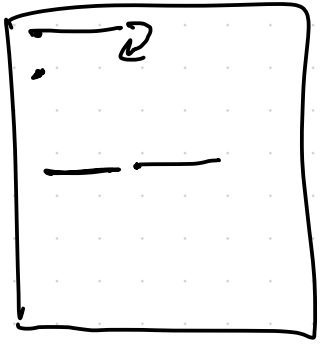


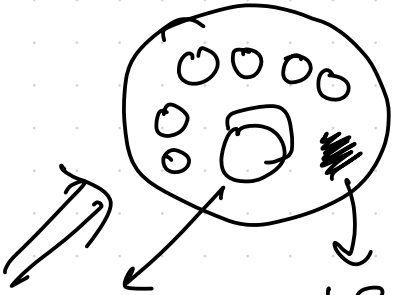
⇒ Manoj

sum (a (b) 5 → argument / parameter

b=5

print





14 10 2 1 Bowl

roti rice

thali { roti = 2, rice = 1 Bowl }

print (sep = "," end = "\n")

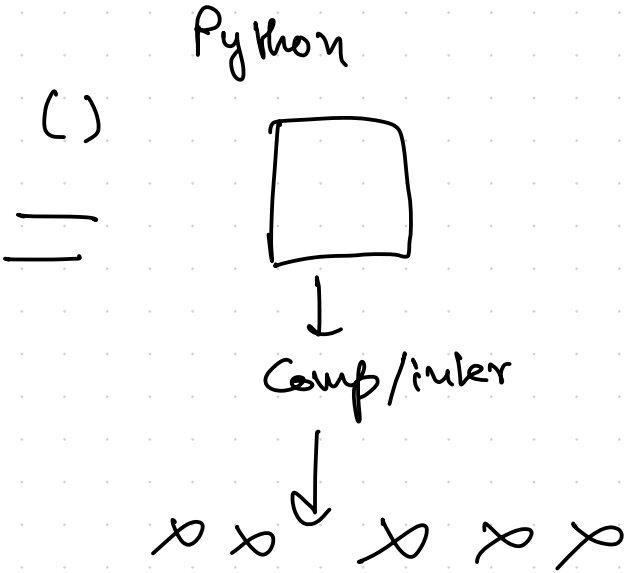
line 1

print

input

Errors
- Syntax
- Runtime

()



Syntax ⇒ Rules of a language
if we break ⇒ error

⇒ Misspell
⇒ indentation, ( ) , typo

Runtime Error (Exception)

runtime

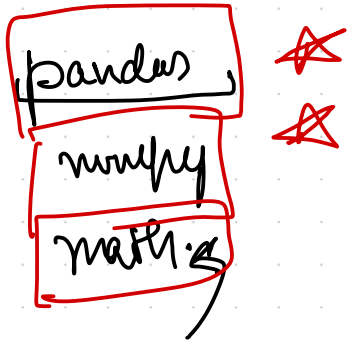
$\frac{a}{b}$

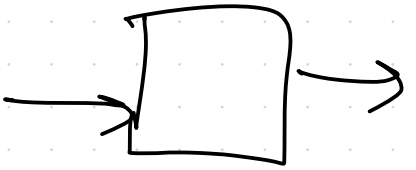
print a/b

$b = 0$

Function defined inside modules

import

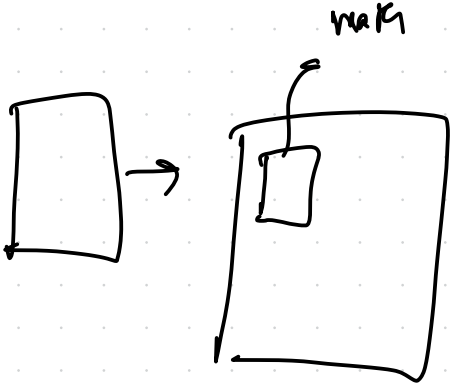




sqrt

factorial(n)

$n \times (n-1) \cdots 1$



Python $\Rightarrow$ Inbuilt fn

User defined fn

identifiers in Python

fn
variables } ⇒ names should be unique

a-z
A-Z
0-9
_ } These char can be used.

1. Cannot begin with number

0abc ✗ abc0 ✓

123 ✗ a123 ✓

2. It cannot begin/contain any other special char except _

@ # ~ ✗ _1 ✓ 1_ ✗ @1 ✗

3. Once started with a-z, A-Z or _ can have the permissible char

4. They are case sensitive a ≠ A abc ≠ ABC

a-z A-Z _ 0-9

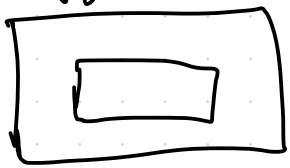
↓↓

Cannot start with this

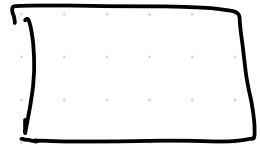
a-z
A-Z
_

a123

void



return



int sum

void sum

place order

place order

sum (a, b)

a+b

print( )

or

save to file( )

return order Id

sum to Sheraz (a, b)

sum