

"Hello Everyone!"



Welcome to the World of

PROGRAMMING

① Sharp 9:05

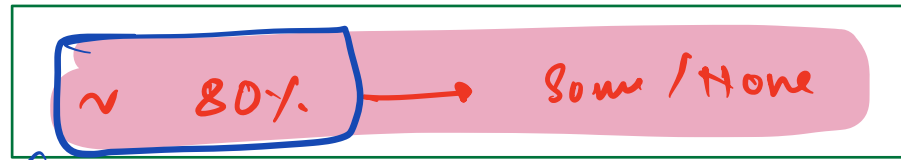
② Quiz → DM

③ ~ 2 hrs content → optional
Doubt
session
↓
5-10 break

④ Doubts →

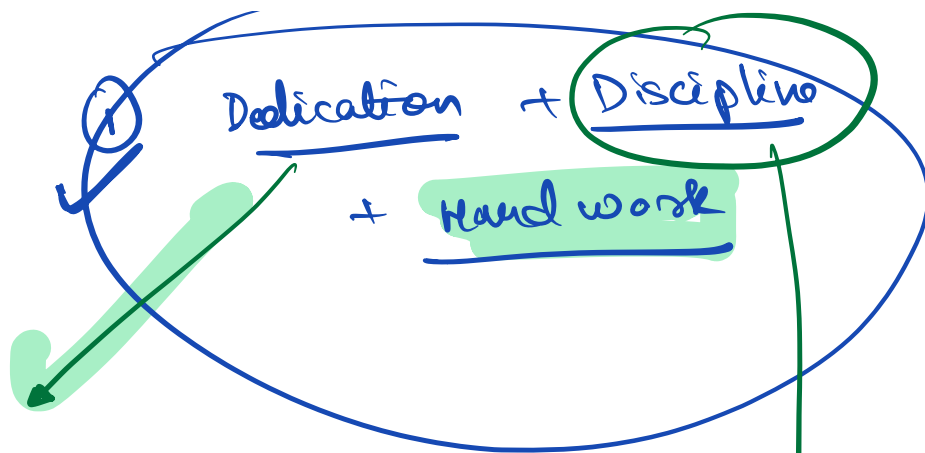
⑤ Assignment + H.W
↓
① TAs
★ ② Peers ✓
→ ③ Problem solving

Roadmap:



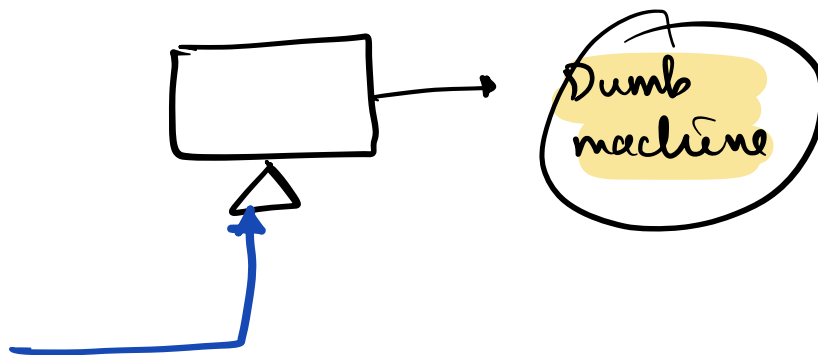
Roadmap

- ① Data types
- ② Operators
- ③ Control flow (if - else)
- ④ Loops
- ⑤ Lists/Arrays
- ⑥ Basic maths
- ⑦ set / Tuples
- ⑧ Dictionaries
- ⑨ Strings
- ⑩ Lots of Programming



→ Google Colab (IDE)

→ Integrated Development Environment



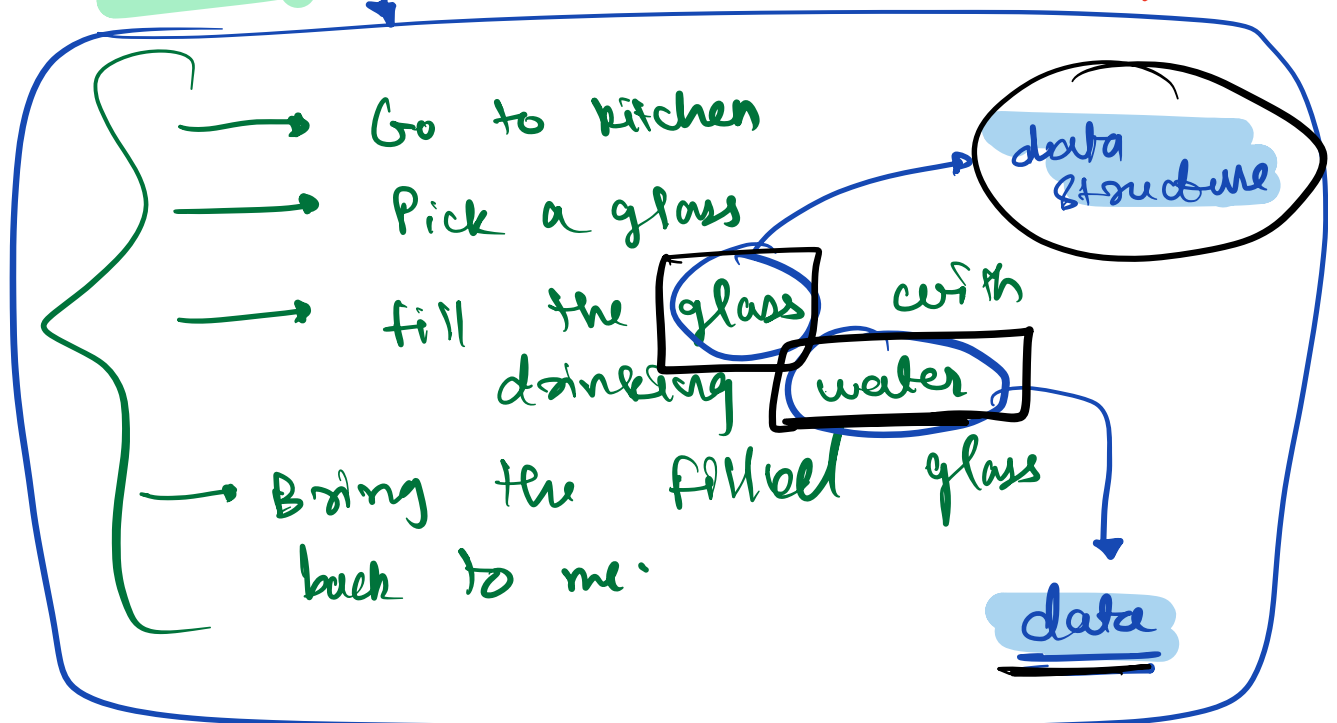
① Give precise instructions

→ non-ambiguous

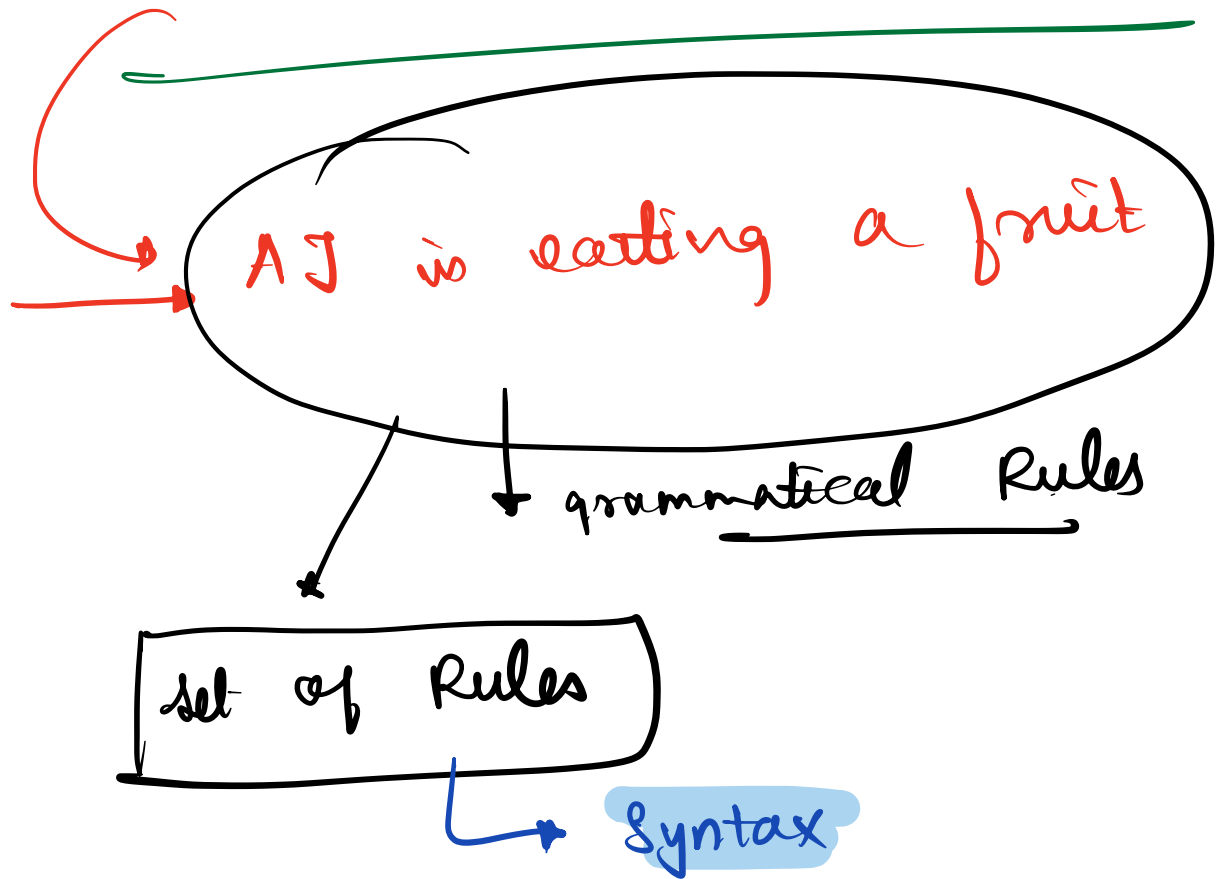
eg: Task: get me a glass of water

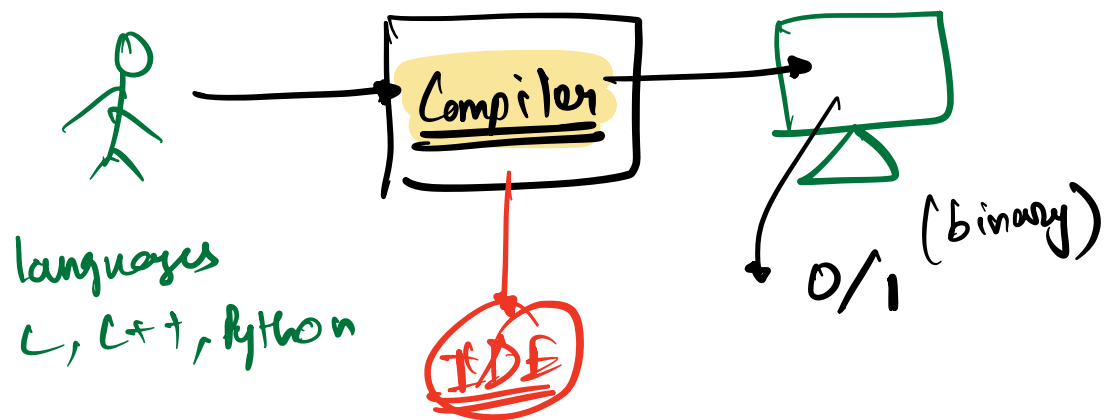
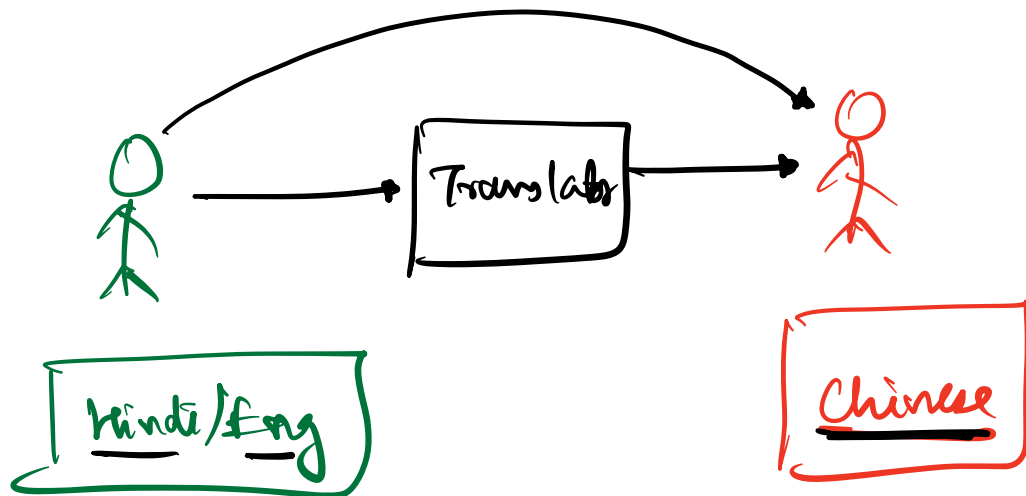
bath drink

Program



→ A eating is fruit AJ.





" " → string

q: 58

Data types

→ data

(8)

Write a program to
add two numbers

special characteristics (attributes)

① Integer (int)

↳ 8, 4, -2, 0, 1, ...

② Float (decimal)

↳ 8.3, 9.257, 7.31

↳ 5.0 ✓ → precision

5

5.12

→ int a = 2 } 4 Bytes

8 4 2 3 5 6 7 8 9 10 11 12

③ Strings ↔ text

↳ double quotes (" _ ")

↳ single quotes (' _ ')

→ "hello"

→ 'yo' mismatch

→ 'hey!'

→ what can you use
keep it same throughout

④ Boolean (bool)

↓
True / False

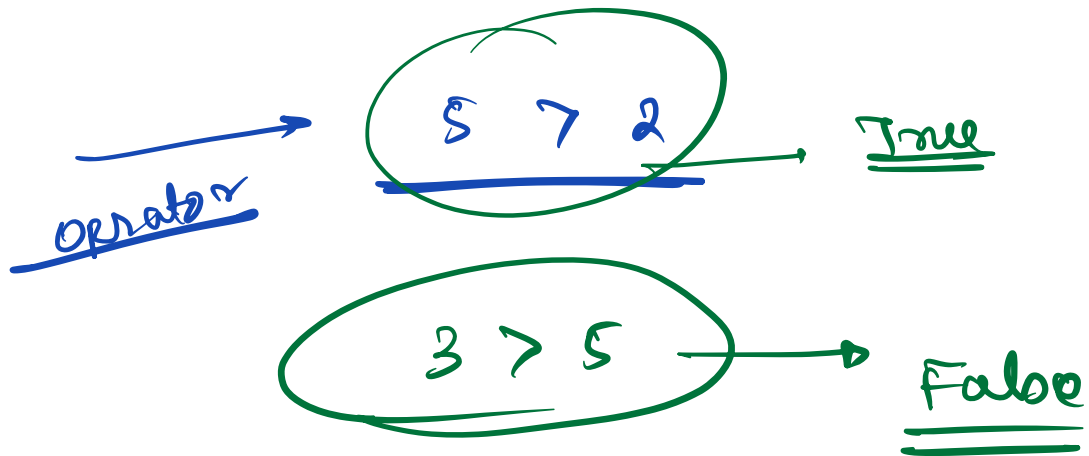
★ Imp : Python is case sensitive

True \nrightarrow true

⑤ NoneType
↳ None

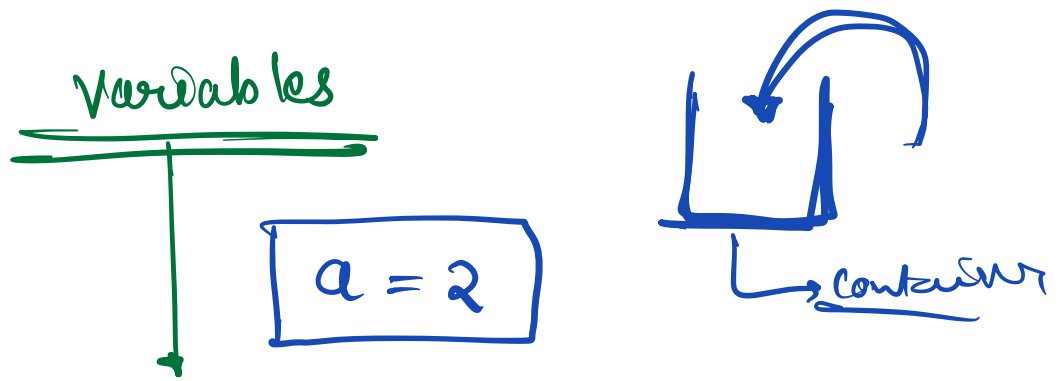
★ represents · nothing

↳ discussed in detail
in function topic

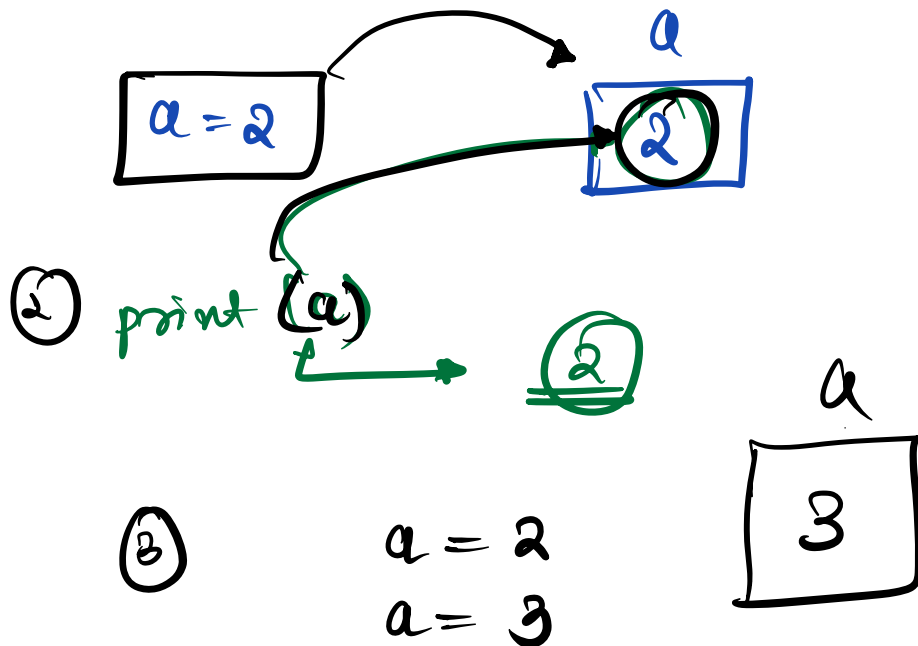
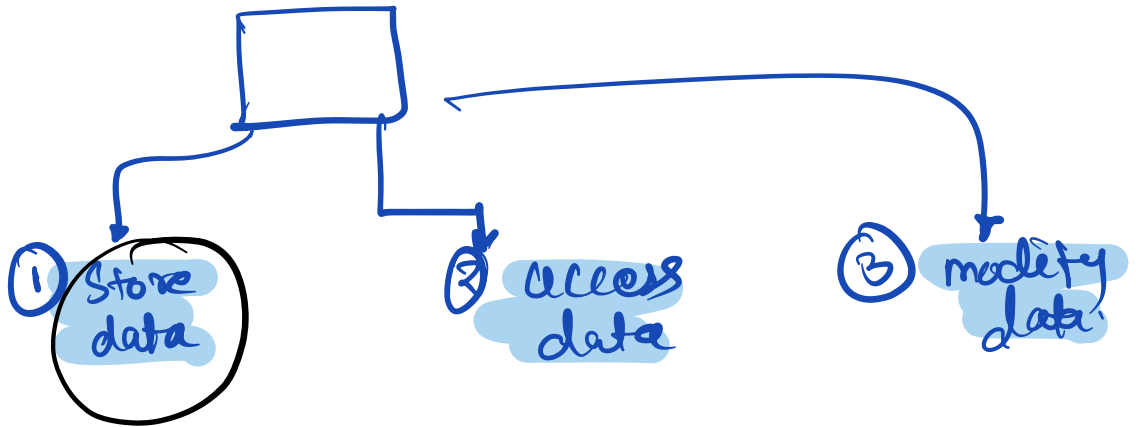


↓
type(n)
↓
what ever is the datatype
of n

→ Everything in Python is
an Object
↳ DOPs



* Container to keep data / object



(8)

✓ x = 3

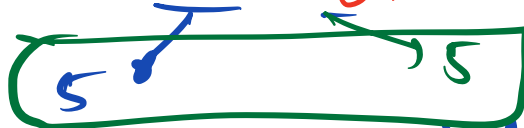
✓ y = 'hello'

num = y

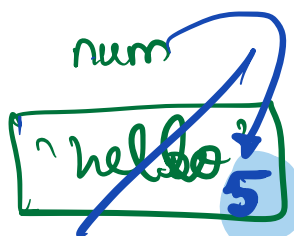
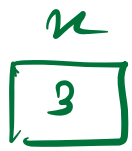
✓ y = 5

num = y

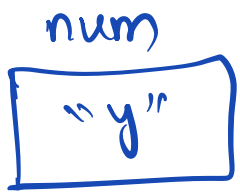
print(num, y)



* A variable → latest stored value.



num = "y"



* Variable naming Rules

① should start with alphabet
or underscore (_)

(a-z) (A-Z)

② Can have (alphanumeric
or underscore)
in between or at end

0-9
a-z A-Z

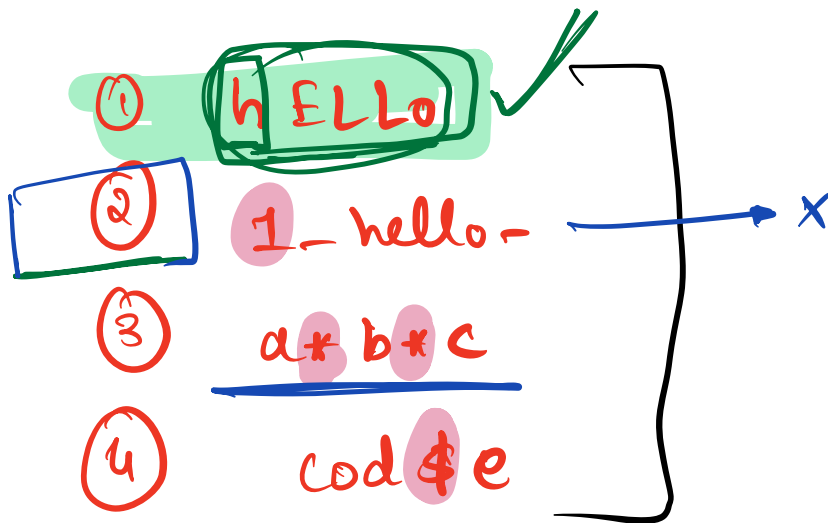
eg:-

①

1a = 2



a
1, a, _



☆ "Trust the Process"

bhaurath = 2

first_name = "Bhavith"