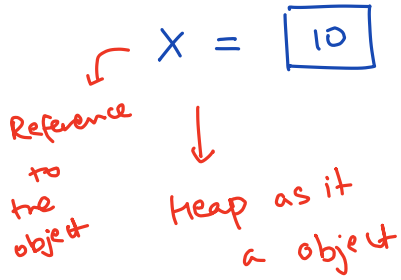
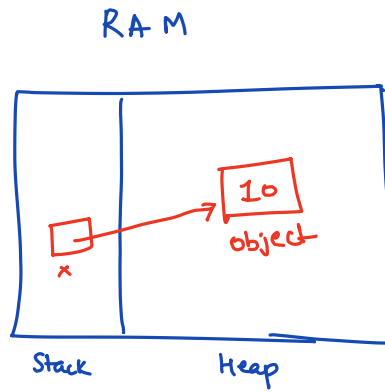
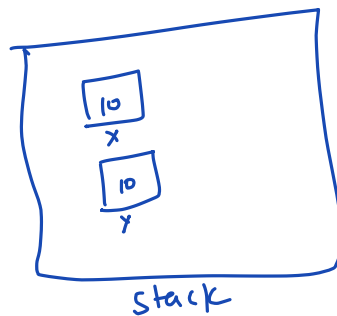
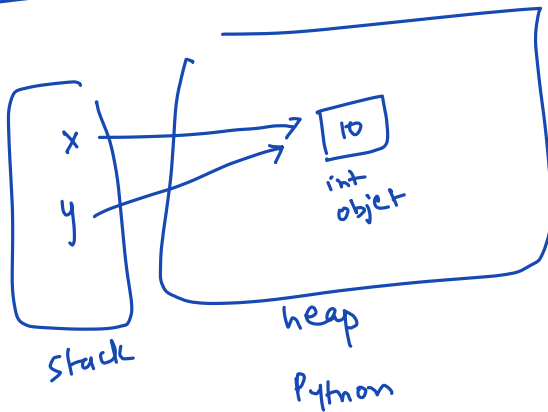


→ All objects are created on
Heap memory.

→ In python everything is
an object.



Python vs other lang



Update the value of
x

$x = 10$
 $y = 10$

C++ / Java

$\text{int } x = 10;$

↓

stack

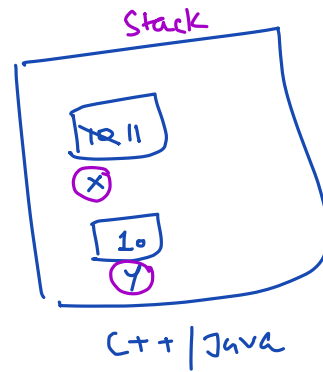
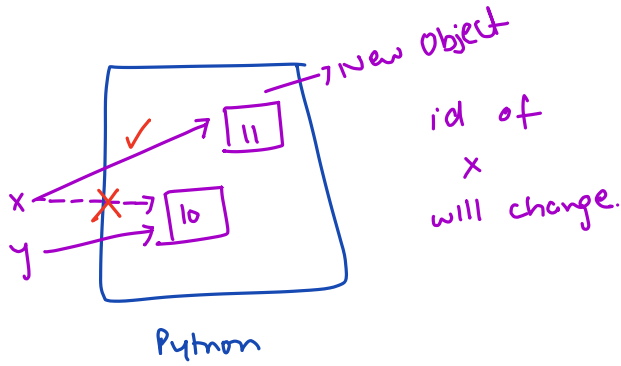
// Primitive
variable

$x = 10$
 $y = 10$

C++ / Java

$\text{int } x = 10;$
 $\text{int } y = 10;$

$x = x + 1 \Rightarrow 11$



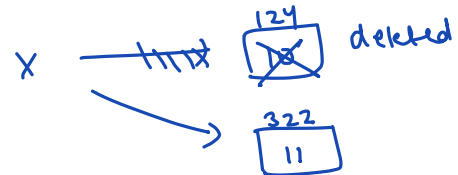
Optimisation [Python \rightarrow object of same value exists, new object "may not" get created.]

Garbage collection \rightarrow freeing up the objects which don't have reference automatically.

\rightarrow Java & Python (Automatic)

\rightarrow in C++, manually delete unused objects.

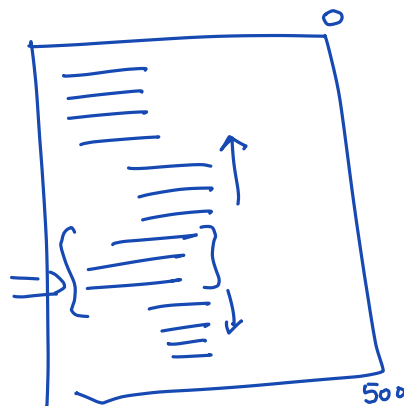
$x = 10$
 $x = x + 1$



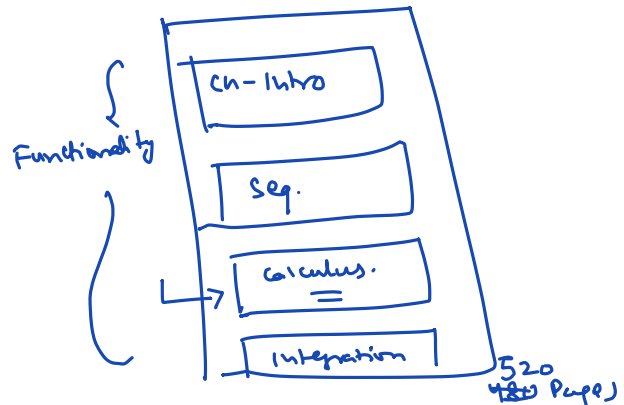
Why Functions? \rightarrow C/C++/Java/JS / - - -

Code bases

Millions of lines of code

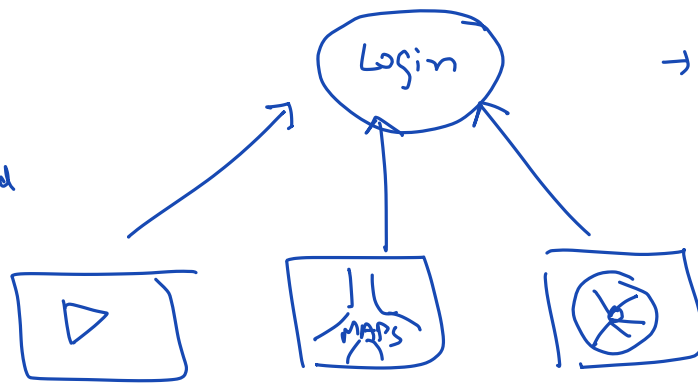
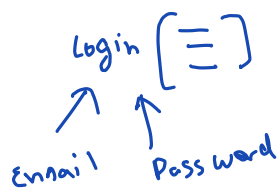


Book B1
1 chapter



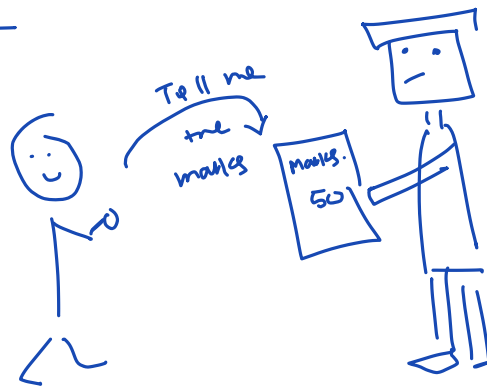
Book B2

\rightarrow organised, modular
 \rightarrow easy to read & maintain.



→ Reusability.
debug.

School



① you score 50 marks.

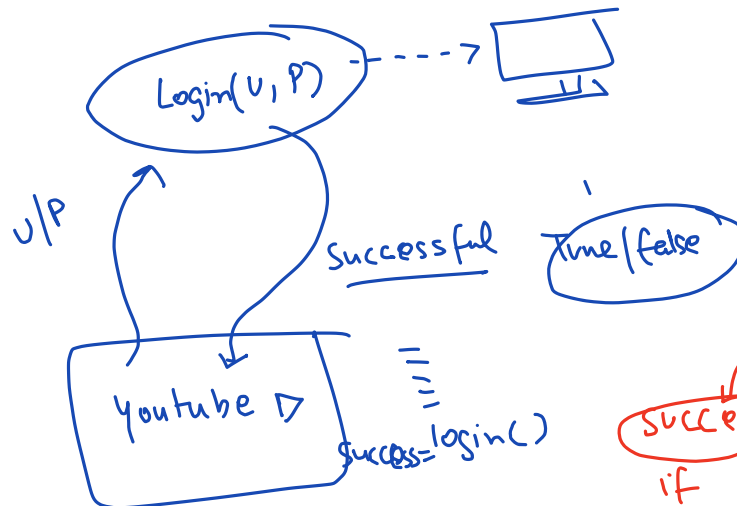
Print(....)

② marksheets 'return'

③ you got 50 marks

+ Take your marksheet

Why Return is useful?



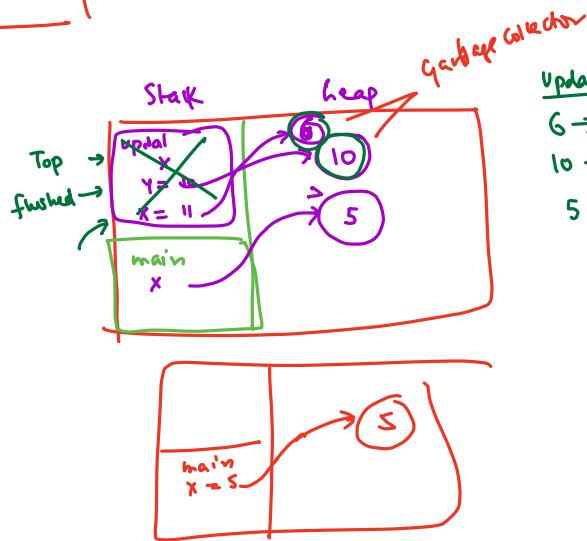
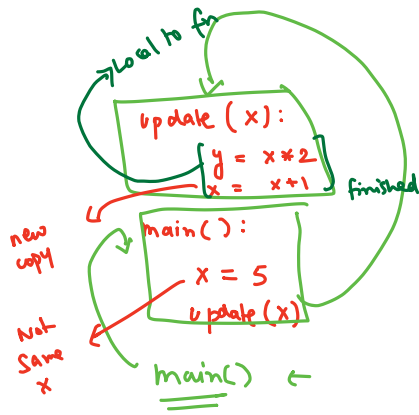
True
success = login()
 if success:

upload video
 edit

else:

Try login Again

Functions → Stack (LIFO) & Heap



Update
 6 → 1
 10 → 1
 5 → 1

Update over
 6 → 0
 10 → 0
 5 → 1

