

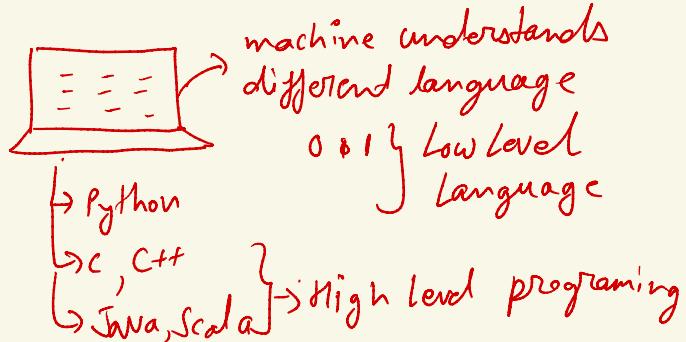

Python

Variables

↳ Name given to a memory location.

Compiler - Interpreter

↳ Converts HLC
to LLC



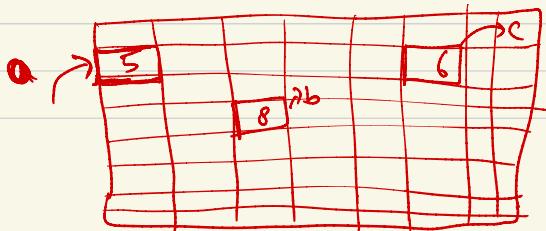
Computer

↳ Memory }
 ↳ Hard Disk }
 ↳ RAM, ROM }
 } whole data will be stored

Programs

↳ We provide few inputs or values to be processed
↳ ex; Calculate sum of 10 Number

How memory look like



* Variable is a name given to a specific memory location.

$a = 5 \rightarrow$ Simple Variable Declaration
& assignment

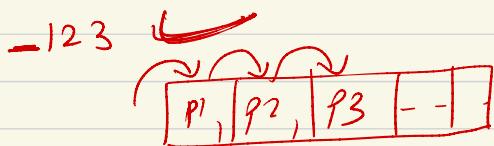
$12abc = 10 \times$ wrong

- any variable names should start with alphabet
- we can not use any special symbol in variable

$post@123 \times$ wrong

we can only use underscore (-) as a part of variable name. $\rightarrow abc_123$ ✓

our variable name can start from underscore



~~XXX~~

Data Type

↳ Text Type = str

↳ Numeric Type = int, float

↳ Sequence Type = list, tuple

↳ Mapping Type = dict { }

↳ Set Type = set

↳ Boolean Type = bool

"abc": 12,
"klm": 10

}

How to do the input - Output in python?

We can use `input()` function

Decision making OR IF-Else in python

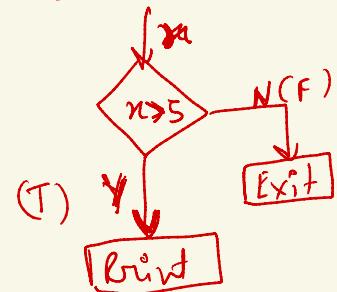
Q:) $x = 5$, print greater if $n > 5$
Or less than if $n < 5$

if Condition:

s_1
 s_2
 s_3 } \rightarrow if Block

else:

s_{10}
 s_{11}
 s_{12} } \rightarrow else Block



Nested If-Else

- (1) marks $\geq 90 \Rightarrow A+$
- (2) marks $= 90 \Rightarrow A$
- (3) marks > 70 and marks $< 90 \Rightarrow B+$
- (4) marks > 60 and marks $< 70 \Rightarrow B$
- (5) marks $< 60 \Rightarrow C$

if c1:
 S1
elif c2:
 S2

elif c2:
 S3
elif c4:
 S4
else:
 S5

