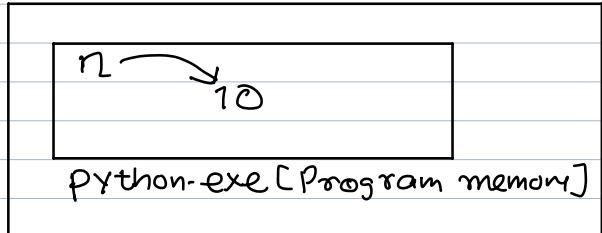


>>> n = 10

>>> type(n)

<class 'int'>

n = 10 →
= python.exe



System memory

n = 10 ... # Python

English Meaning? ○ Python Interpreter,

Please store value 10 in your
program memory and assign name 'n'
to it.

Machine Language: 111011000100111000111

How 10 is stored internally?

and

How name 'n' is assigned to it?

Object

Data value

Object

Diamond

Carving

feat

Object

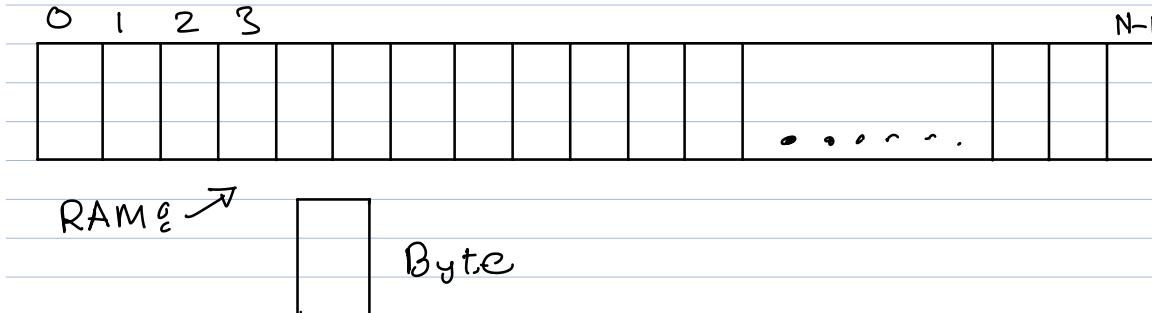
First view : Object is an instance of class.

Second View : Object is a container of data value.

Third View : OBJECT is a CONTIGUOUS BLOCK OF MEMORY WITHIN PROGRAM MEMORY.

Contiguous = संलग्न.

Main Memory or RAM consists of large amount of smallest unit of memory known as bytes.

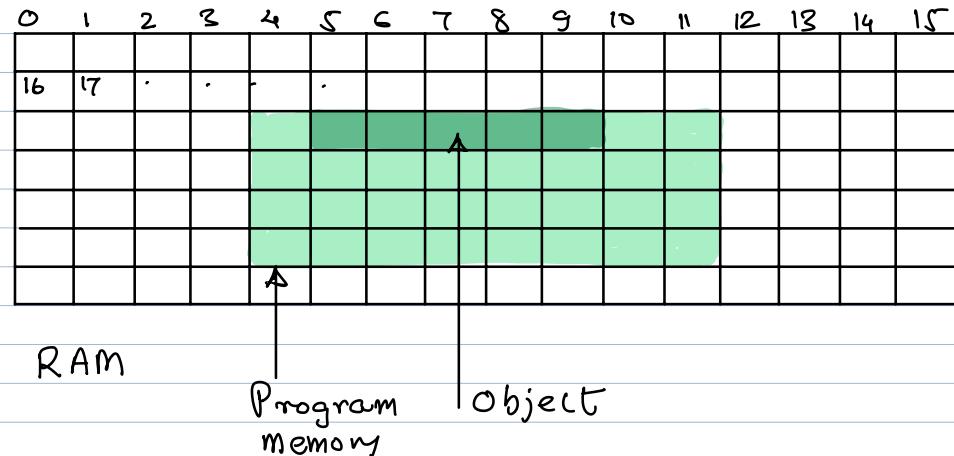


Every byte in RAM has a unique number associated with it, also called as, address of byte.

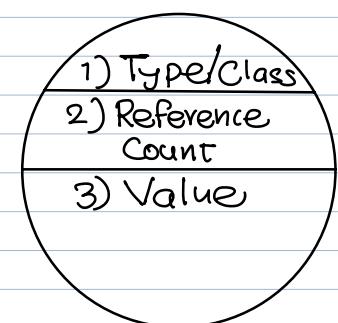
[Please go to next page]

OBJECT is a CONTIGUOUS BLOCK

OF MEMORY WITHIN PROGRAM MEMORY.



Internal Format of "ANY" Python Object ?



General Format :

(a) Type: Data-type name or class
name which is used to
create/allocate an object'

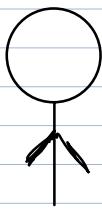
(b) Reference Count: This is a
non-negative integer which
indicates total names given
to object.

योग्या ($R.C = 3$)

$R.C = 0$

योगी

($R.C = 2$)



योग्यकर ($R.C = 1$)