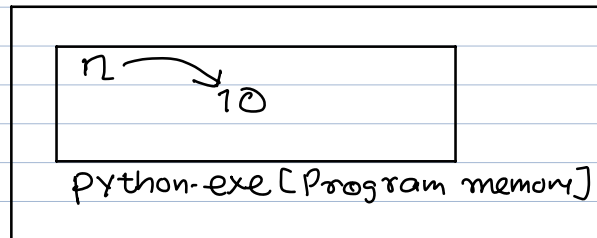


```
>>> n = 10
```

```
>>> 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: 1110111001001110001111

How 10 is stored internally ?

and

How name 'n' is assigned to it?

दीर्घा

Data value

↓
Diamond

दीर्घा

Object

Carving

दीर्घा

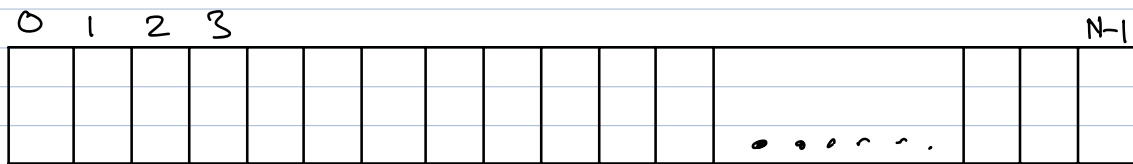
First view : Object is an instance of class.

Second View : Object is a container of data value.

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

Contiguous = सलग.

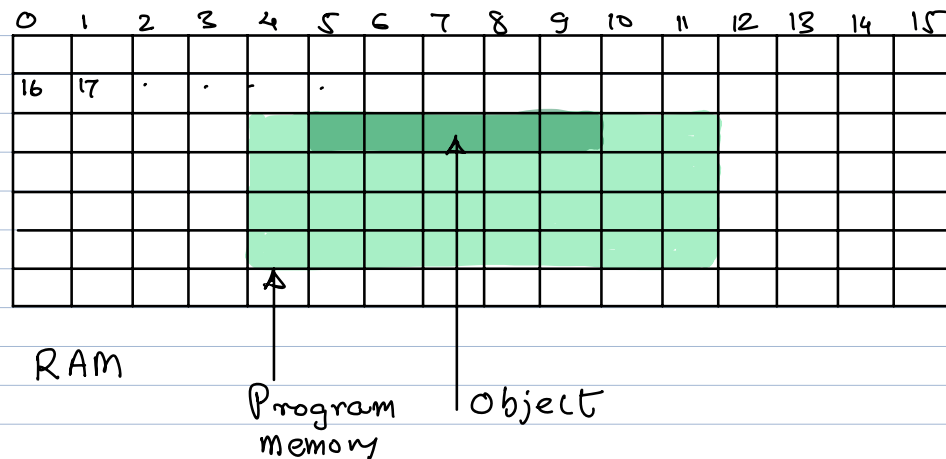
Main Memory or RAM consists of large amount of smallest unit of memory known as bytes.



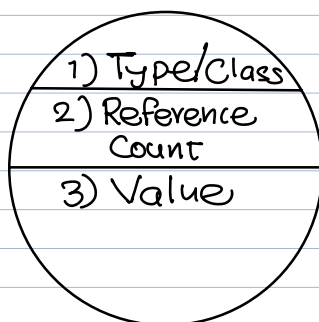
Every byte in RAM has a unique number associated with it, also called as, address of byte.

[Please go to next page]

OBJECT is a CONTIGUOUS BLOCK
OF MEMORY WITHIN PROGRAM MEMORY.



Internal Format of "ANY" Python Object :



General Format :

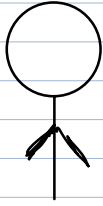
(a) Type: Data-type name or class name which is used to create/allocate an object.

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

योगेश (R.C.=3)

R.C.=0

योगी
(R.C.=2)



योगेश्वर (R.C.=1)