Data types

Data : } Information

3.14   1001   Grain

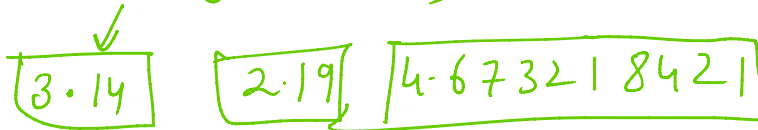Integers

1234781179   4   400   −2   −20
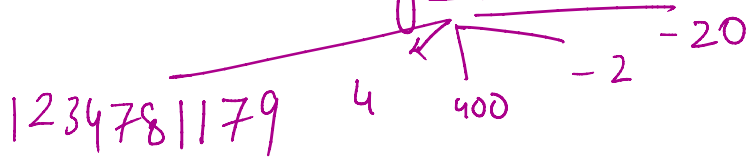
+ve
−ve } No upper limit

Float (Decimal)

3.14   2.19   4.673218421

0.3   .3   5.0   5

↓

More information

More Precise

float

a = 0.3   c = "3.14"
b = .2   f = -3
c = "2.3"   g = 5.
d = 1.0

} a b d g

✓   ✓   ✓   ✓
[0.3] / [.2]   "2.3"   [1.0]   "3.14"   -3   [5.]

=

Strings

double / single

"   "   '   '

["hello"]   ["3.14"]   "   "

" aka@dancing monkey.com "

["   ']

No difference

"hello' → X consistent

Bool
→ True and False
↓ ↓
1 0

NoneType
↳ None ⎤ Empty hand
↖ ⎦
Represents Nothing
empty value

how do check the data type of a
given [Object]

: Everything in python is considered
as object

333
type (object)

V → f(u) — V×2
3 → f(3) = 3×2 = 6

input ⟶ [___ation] → Data
Type

input → [function] → Data Type
Object →

Akshay — Hera Pheri } Raju } Memory

π = 3.14

Variables
of
Computer

Empty Memory   Containers } Store — objects (Data)

Store data   acsess data   Modify data

Value
| 3.14 | → | π | Name

x = 10

x —— Name

| 10 | ✓
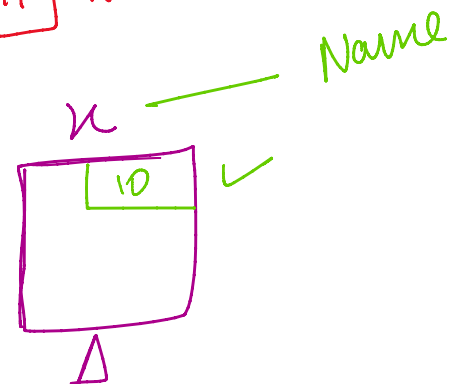
Variables

Rules — Name

1. **Start** with → $\underline{alpha}$ _(a-z) (A-z)

2. Number / Special char → ___ (underscore)

X
X [1_hello_some] ⓐ

ⓑ hello ✓

X a*b*c ©

cod&e X ⓓ