## Data Types!

Datatypes is mend to findout which type our what kind of dator is stored inside the system memorey.

## Data Type

Single Value Datotype / Mueti value Datotype /
Individual Datotype ... Collection Datotype .

Numeric Dato lype Boolean Datolype - String
- Integer - Truce - List
- Falue - Set
- Complex
- Dictionary

There are 2 type of dataty by.

single value Datatype / Individual Datalype
Mulli value Datatype / collection datatype.

Single Value Dato type (1)

If a single value is stored prinche a single memory block on of a single value is associated with single value is called svot

There are 2 types of single value Datatype

- 1. Nomerie single value Oata type
  - 2. Bodean single value Data type

1. Numeric Single Value Data type:

The Datatype will accept only numbers as data

- (a) Int
- (b) float
- (c) complex.

- (a) Integer! This databyeu? Il store only integer number as data
- · Integer number à a number conthout any decina pornt ou floating point & decimal value ou floating value.

· 4 number can be book tre & -ve

· A number can have n number of digits

Example: a=5, b=3

(b) float: This dalatiper will accept only floating number

· Floating number is a number with decimal point ou floating point & decimal values ou floating val

· A number can be both the & -ue.

· A member can have a number of digits

· Defauet valeu of float in 0.0 Example: d. 5.25 7= 3.56.

(c) Complex: Inv datatepe will store only complex number as data

· complex number is a combination of sual part & imaginary part.

. The real part may have ent / float number

The imaginary part have j; means V-I

· The format to write complex clasa type is AtBJ) we can't change the format into AtjB, because jB will be considered as identifier & will throw an error menage.

Example: 2+j5; Name j5 is not defined.

. If a number is housing only the imaginary part then also it is considered as complex number

ariaj. Intom Depart value is oj.