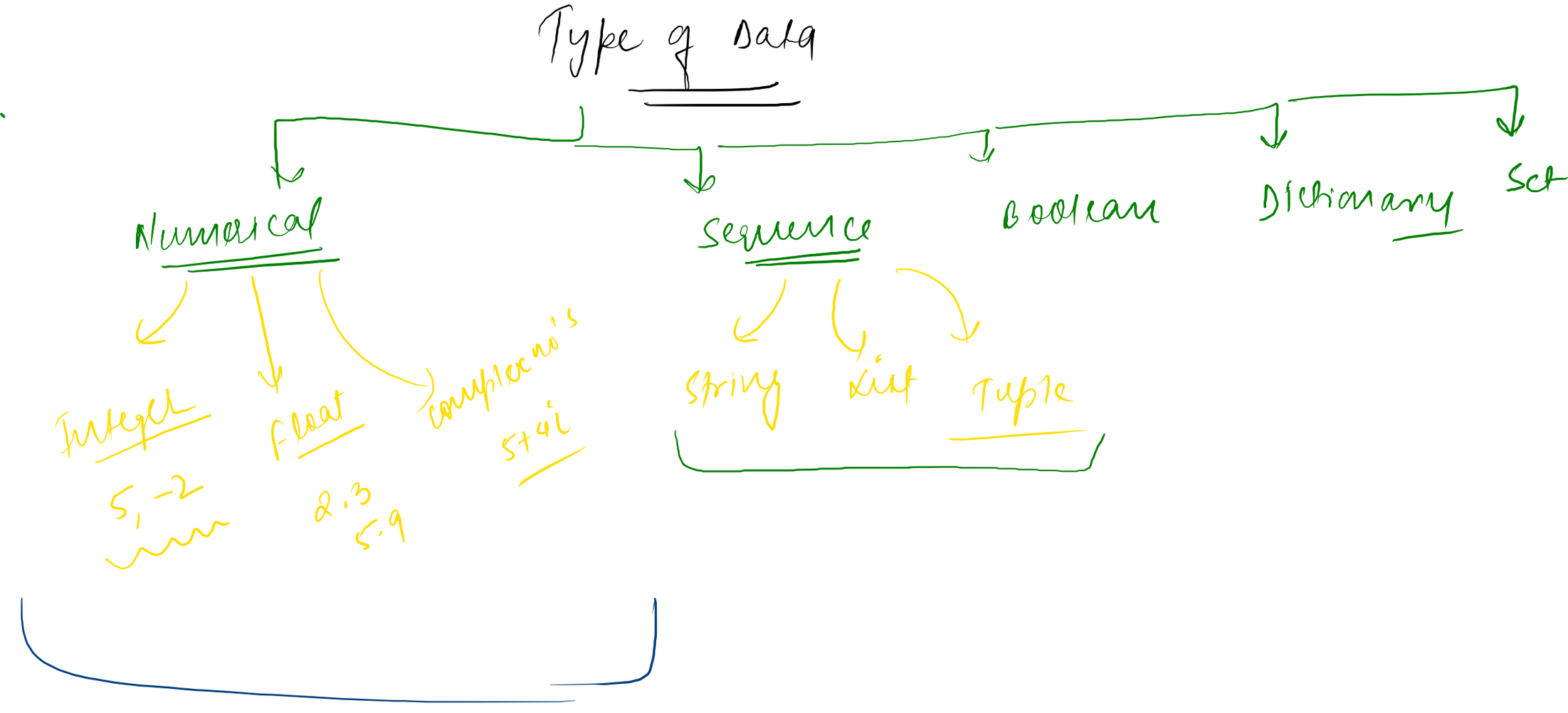

Type of Data
Numerical
Sequence
Boolean
Dictionary
Set
Integer
5, -2
Float
2.3
5.9
Complex no's
5+4i
String
List
Tuple

sequence → group of elements

String → group/sequence of characters

name = 'Vishnu'

name = ' Vishnu '

-6 -5 -4 -3 -2 -1

0 1 2 3 4 5

name[4] → w

name[5] → a

⟵ [0, length-1]

[-length, -1]

String } immutable

a = 'Vishnu'

b = 'Vishnu'

① immutable → easy and safe to work in the concurrent env.

② saving space

String slicing]

portion of the pizza/cake

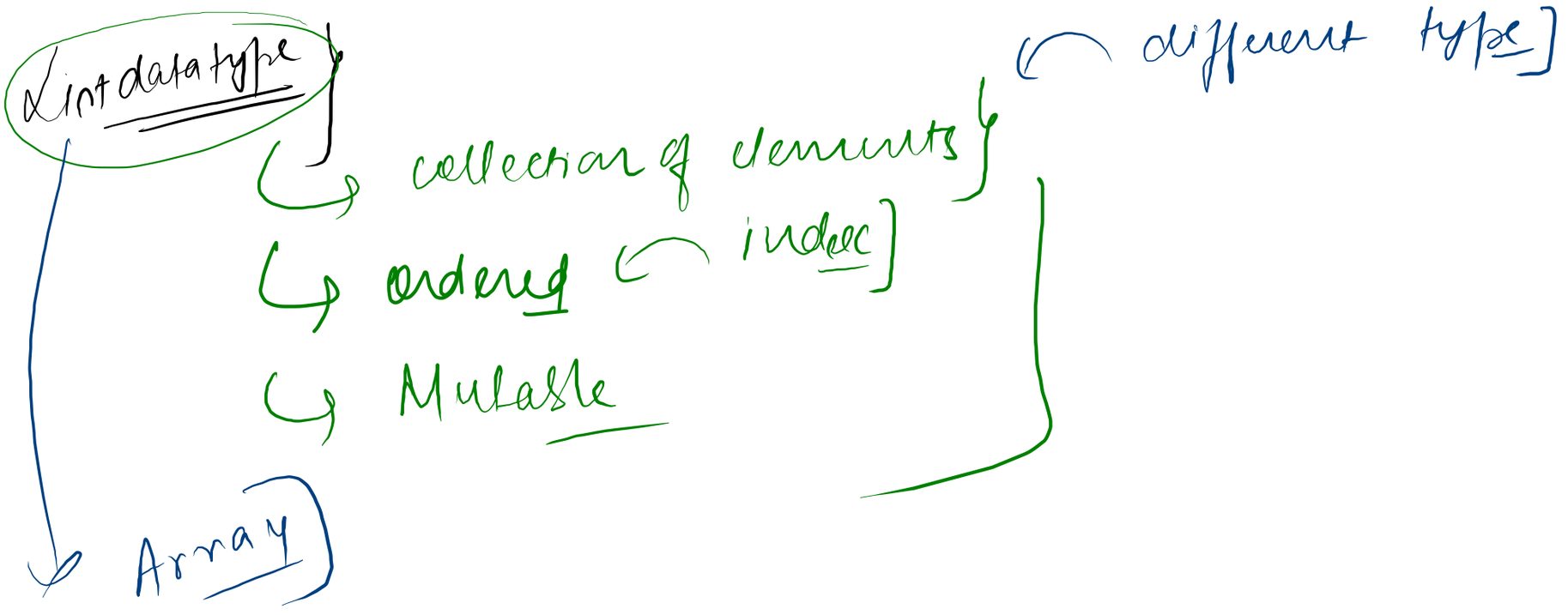
slice

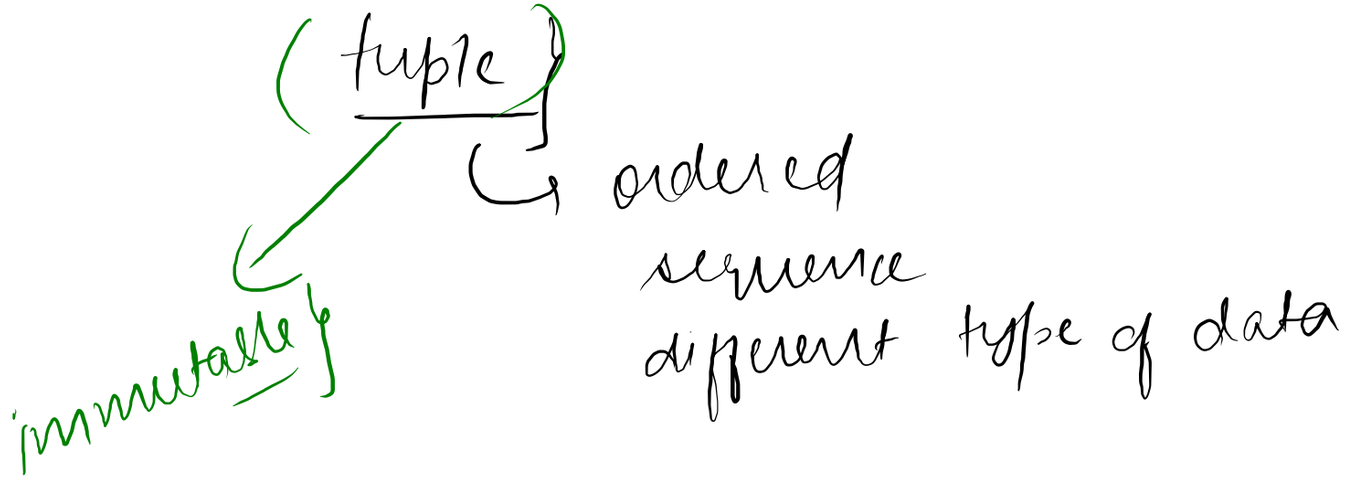
str = (vishwa mohan)

0 1 2 3 4 5 6 7 8 9 10 11

[slice of a string]

str[a:b] → [a, b-1] → will be the slice


List data type
collection of elements
different type
ordered
index
Mutable
Array


tuple
ordered
sequence
different type of data
immutable

Dictionary → ① (key, value)

Map (Java)

② unordered

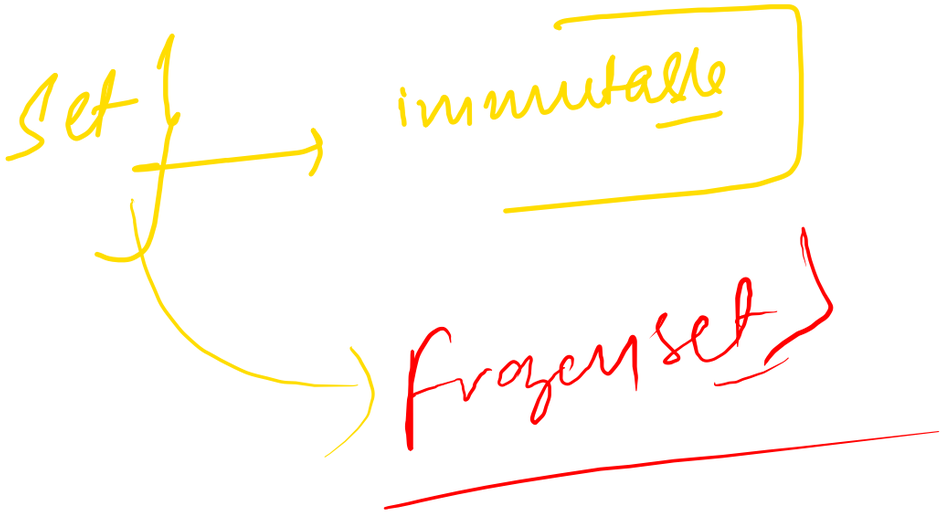
③ Mutable

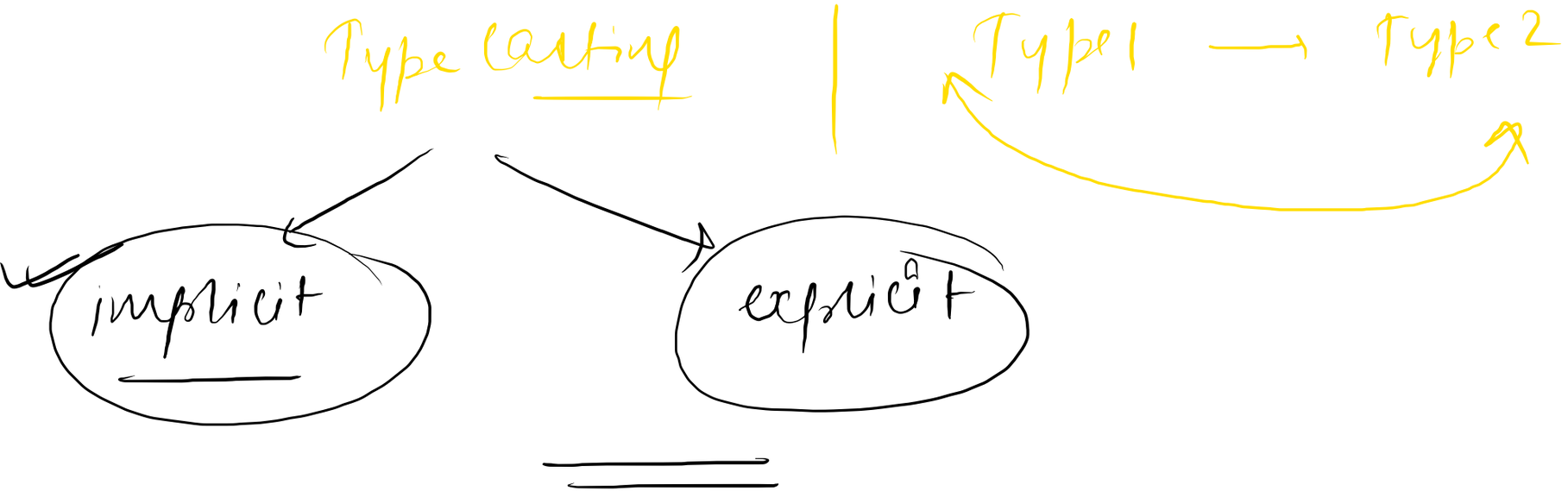
④ key have to be unique

⑤ Heterogeneous data

Set

1. No duplicates | elements are unique
2. Mutable
3. Un-ordered
4. Heterogeneous → multiple data type


set
immutable
frozenset


Type casting
Type1 → Type2
implicit
explicit