27/07/21

Datatypes

Numeric datatypes
1. int - Integer - num. without decimal
2. float - Floating - num. with decimal

String datatype → 3. str - String - collection of characters

Data structure
4. list - Collection of elements.
5. tuple - " "
6. dict - Dictionary - "

Boolean → 7. bool - True / False

→ int - 4, 7642, 887940
-4, -7642, -48

→ float - 7.6, 92.54, 678.23
-7.6, -52.9, -78.2

Numeric datatypes

assignment

abc = 2020

abc → variable

2020 → int value

(3). Str → Collection of characters

1. Alphabets
2. Numbers
3. Special characters

Enclose with quotes

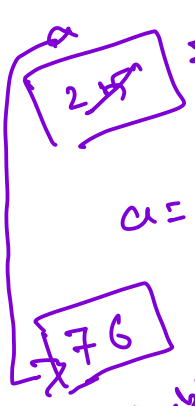
(4) types.

1. ' ' } Single line str
2. " "
3. ''' ''' } Multi line str
4. """ """

(4) list → Collection of elements of diff. datatypes

→ [ ] Square brackets

a = 25



→ Mutable

a = 76 → Elements are separated by (,) Comma

Immutable

enclosed → [4, 6, 8, 10]

[2.4, 6, 79]

['Apple', 'orange']

↓ ↓

elem elem

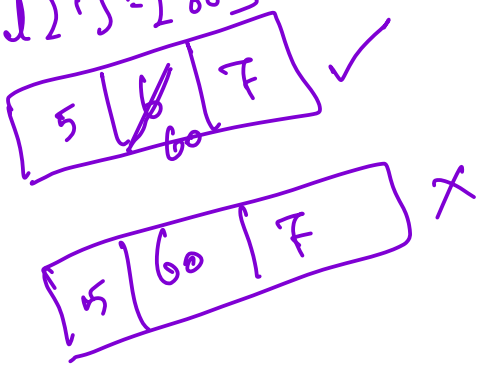
Mutable

List

Dict

l = [5, 6, 7]

l[1] = [60]



Immutable

int

float

str

tuple

bool

t = (5, 60, 7)

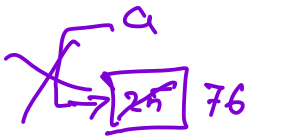
f = (5, 6, 7)

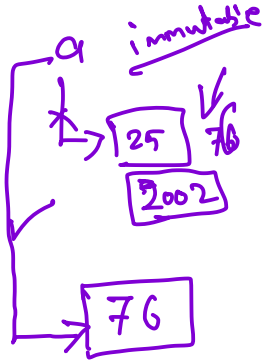
f[1] = 60 ✗

mutable

a = 25

a = 76





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(5) tuple → Collection of elem. of dif. datatypes

→ ( ) - parenthesis

→ Immutable

→ , (comma)

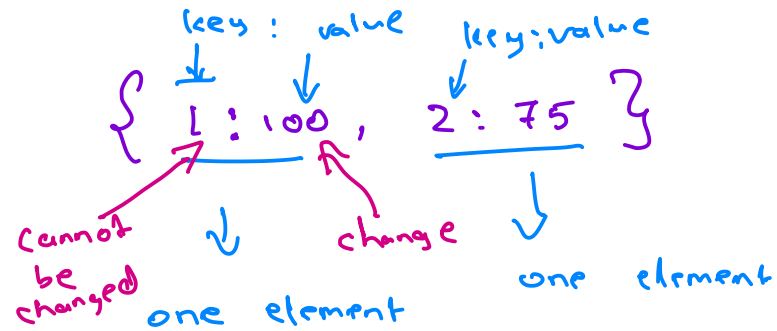
(6) dict → Collection of elements of diff. datatypes

→ { } → Curly braces

→ Mutable

→ Unordered sequence

→ key : value pairs (separated by ,)



Keys

(Immutable)

- int
- float
- str
- tuple
- bool

Values ✓

- int
- float
- str
- list
- tuple
- dict
- bool

list
dict
} ✗ → Mutable

- Str
- list
- tuple
- dict

} collection of elements

Functions / methods

- pre defined (Built-in)
- user-defined

⑦ bool → True / False