

Dictionaries

- Lists
 - Tuples
 - Sets
 - Dictionaries
- Mutable
 - Immutable
 - Mutable
 - Mutable

Last Class

Transition Test

Stack

Syllabus - Everything
except Tuples,
Sets, Dictionaries

Word → Meaning

Mapping

→

HashMap

↓

Dictionaries
(in Python)

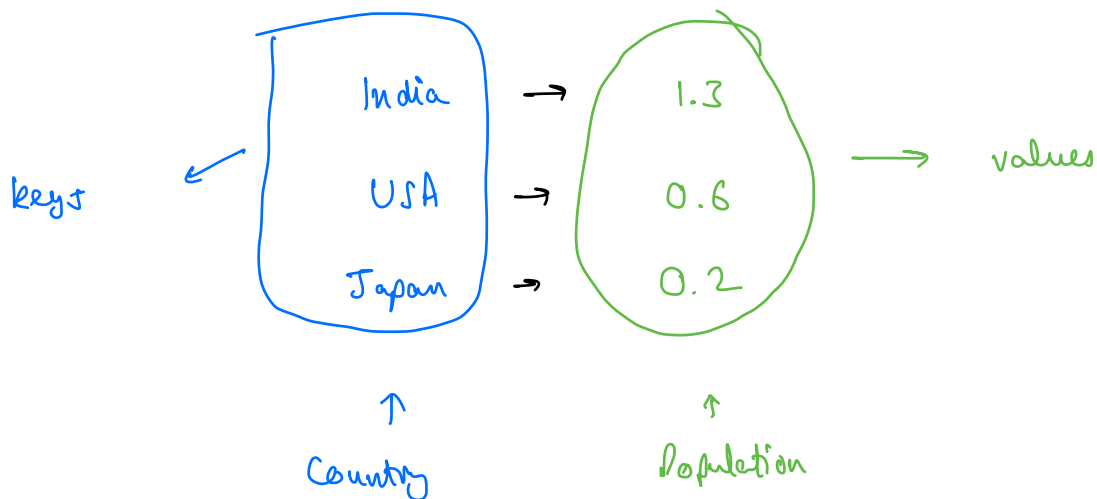
→ Uses
hashing
internally

Dictionary is a data structure which
stores

key → value mapping

Understanding key-value

Q1. Store population of every country



Entry = key → value pair

Q2. No of states in each country

India	→	28
USA	→	50
Russia	→	70

keys = Country names (str)
values = No of states (int)

Q3

Restaurant - Food menu

Dal Makhani → 300

Dosa → 200

Pizza → 400

keys = food items (str)
values = prices (int)

You can only get value
from key

Not the other way around

~~"Dosa" → 50~~

"Dosa" → 60

Break

fill

10:04 PM

Frequency Map

$a = [5, 5, 2, 5, 6, 2, 1, 3]$

- 1) Iterate over the list
- 2) If key is not present
add a new entry for it
with freq 1
- 3) If key is present,
increment its frequency

freq
{

5 → ~~1~~ 3

2 → ~~1~~ 2

6 → 1

1 → 1

3 → 1

}

freq = {}

for x in a:

if x in freq:

if key is present

increment its frequency

freq[x] += 1

else:

if key is not present
add a new entry for it
with freq 1

$\text{freq}[x] = 1$

Doubts

Thank
you

Thank you everyone.

Congratulations on completing
Beginner Module.

→ tarun.luthra @ scaler.com

→ Ping me on Slack

Transition Test

→ Functions

→ List ←

→ Strings ←

Solve all assignments
& homework again

Extra questions

→ nackerank

1:1 mentor session

→ Do some research

→ Prepare 5-10 questions

Scaler Fairplay

Good
Night

Thank
You

Best of Luck