

Before learning about dict, let us solve below?

Q:- Write a program to count occurrence of each word in a sentence.

'Hello Python is best python series'



['Hello', 'Python', 'is']
↑ ↑ ↑
0 1 2

[, , , , ... , ab , ~~ac~~ , ad]

→ a₀ b₁ c₂ d₃

python
100005

⇓ dictionary

{ 'is' : ✓ }

Key: value

'python': 2

'hello': 1

Dictionary in Python {k:v}

A dictionary in python is a collection of items in form of key-value pairs.

Dictionary are defined by initializing Key-Value pair inside `{ }` or `dict()`.

Dictionary Characteristic

Ordered * - Since Python 3.7

changeable

Do not allow duplicates Keys.

```
word = { 'name': 'mayank', age = 30 }
```

```
words = dict ( name = 'mayank', age = 30 )
```

Accessing Dict items

dict items can be accessed using key.

Though ordered (post 3.7) indexing & slicing doesn't work.

`d['key']`

Dict Operations

1. Looping - By default we access keys

`d.keys()`

`d.values()`

`d.items()` - access `k:v` pair as a tuple

```
for k, v in d.items():  
    print(f'{k} - {v}')
```

F-nc \oint