

Baghdad-ul-Jadheed campus

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Chapter # 4

> Dictionary:

Dictionaries are Python's implementation of a data structure that is more generally known as an associative array.

4 Example

```
1
2 #dictionary
3 a = {"key": "value" , 1:"alia", 2:[1,3,7]}
4 print("dicitionary is:\t" ,a)
5 #index
6 print("index is" ,a[2])
7
8
9

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

PS D:\sofware h> python -u "d:\sofware h\python\dic and set.py"
dicitionary is {'key': 'value', 1: 'alia', 2: [1, 3, 7]}
[1, 3, 7]
PS D:\sofware h>
```

Dictionary properties:

- Some properties of dictionary are given below:
- Dictionaries are unordered. A dictionary contains key-value pairs but does not possess an order for the pairs. ...
- Keys are unique. Dictionary keys must be unique. ...
- Keys must be immutable. ...
- Dictionary comprehension

> Dictionary method:

Python has a set of built-in methods that you can use on dictionaries.

4 Example:

```
#dictionary method
     print(type[a])
     a.items()
     print(a)
11
     a.keys()
12
     print(a)
13
     #update
     b = {"key": "value", 1:"alia", 2:[1,3,7]}
14
     c= {"friend":"faria"}
15
     b.update(c)
17
     print(b)
```

Output

> Set:

Sets are **used to store multiple items in a single variable**. Set is one of 4 built-in data types in Python used to store collections of data, the other 3 are List, Tuple, and Dictionary, all with different qualities and usage.

4 Example:

```
python >  set.py > ...

1     #set
2     name = {"alia", "asad" , "faria"}
3     print("set is\t" , name)
4     info ={"alia", 2, False ,4.33}
5     print("INFO IS:\t" ,info)
6
7
```

Output

```
PS D:\sofware h> python -u "d:\sofware h\python\set.py"
set is {'asad', 'alia', 'faria'}
INFO IS: {False, 2, 'alia', 4.33}
```