

# Dictionary

```
In [3]: 1 d = dict() # empty dictionary
        2 print(d)

        {}
```

```
In [4]: 1 d1 = {} # empty dictionary
        2 print(d1)

        {}
```

```
In [7]: 1 d = {1:'one' , 2:'two' , 3:'three'}
        2 d
        3

        {1: 'one', 2: 'two', 3: 'three'}
```

```
In [12]: 1 e = {1:'one', (1+2j):9, 'hi':'welcome', 'A':['asif' , 'john' , 'Maria']}
        2 e

        {1: 'one', (1+2j): 9, 'hi': 'welcome', 'A': ['asif', 'john', 'Maria']}
```

```
In [13]: 1 e.keys()

        dict_keys([1, (1+2j), 'hi', 'A'])
```

```
In [14]: 1 e.values()

        dict_values(['one', 9, 'welcome', ['asif', 'john', 'Maria']])
```

```
In [15]: 1 e.items()

        dict_items([(1, 'one'), ((1+2j), 9), ('hi', 'welcome'), ('A', ['asif', 'john', 'Maria'])])
```

```
In [1]: 1 keys = {'a' , 'b' , 'c' , 'd'}
        2 value = [10,20,30]
        3 mydict3 = dict.fromkeys(keys , value) # Create a dictionary from a sequence
        4 mydict3
```

```
{'b': [10, 20, 30], 'c': [10, 20, 30], 'd': [10, 20, 30], 'a': [10, 20, 30]}
```

## operations

```
In [14]: 1 m = {'Name':'Sruthi' , 'ID': 12345 , 'DOB': 1999 , 'Address' : 'Delhi'}
        2 m
```

```
{'Name': 'Sruthi', 'ID': 12345, 'DOB': 1999, 'Address': 'Delhi'}
```

```
In [15]: 1 m1 = m
```

```
In [4]: 1 m['DOB'] = 2000
        2 m['ID'] = 65789
        3 m
```

```
{'Name': 'Sruthi', 'ID': 65789, 'DOB': 2000, 'Address': 'Delhi'}
```

```
In [7]: 1 a = {'Address' : 'Mumbai'}
        2 m.update(a)
        3 m
```

```
{'Name': 'Sruthi', 'ID': 65789, 'DOB': 2000, 'Address': 'Mumbai'}
```

```
In [8]: 1 m['job'] = 'Analyst'
        2 m
```

```
{'Name': 'Sruthi',
 'ID': 65789,
 'DOB': 2000,
 'Address': 'Mumbai',
 'job': 'Analyst'}
```

```
In [9]: 1 m.pop('ID')
        2 m

{'Name': 'Sruthi', 'DOB': 2000, 'Address': 'Mumbai', 'job': 'Analyst'}
```

```
In [10]: 1 m.popitem() #random item

('job', 'Analyst')
```

```
In [11]: 1 del[m['DOB']] # Removing item using del method
        2 m
        3

{'Name': 'Sruthi', 'Address': 'Mumbai'}
```

```
In [13]: 1 m.clear()
        2 m

{}
```

```
In [17]: 1 for i in m1:
        2     print(i,':', m1[i])

Name : Sruthi
ID : 12345
DOB : 1999
Address : Delhi
```

```
In [18]: 1 'Name' in m1

True
```

```
In [19]: 1 'Sruthi' in m1 #only keys are tested

False
```

