

Dictionary

```
In [1]: d={}
        d
```

```
Out[1]: {}
```

```
In [2]: type(d)
```

```
Out[2]: dict
```

```
In [3]: d1={1:'one',2:'two',3:'three'}
        d1
```

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

```
In [4]: d1.keys()
```

```
Out[4]: dict_keys([1, 2, 3])
```

```
In [5]: d1.values()
```

```
Out[5]: dict_values(['one', 'two', 'three'])
```

```
In [6]: d1.items()
```

```
Out[6]: dict_items([(1, 'one'), (2, 'two'), (3, 'three')])
```

```
In [7]: d1[0]
```

```
-----
KeyError                                Traceback (most recent call last)
Cell In[7], line 1
----> 1 d1[0]

KeyError: 0
```

```
In [8]: d1[1]
```

```
Out[8]: 'one'
```

```
In [9]: d1['one']
```

```
-----
KeyError                                Traceback (most recent call last)
Cell In[9], line 1
----> 1 d1['one']

KeyError: 'one'
```

```
In [10]: d1
```

```
Out[10]: {1: 'one', 2: 'two', 3: 'three'}
```

```
In [11]: d1.get(4)
```

```
In [12]: d1
```

```
Out[12]: {1: 'one', 2: 'two', 3: 'three'}
```

```
In [13]: id(d1)
```

```
Out[13]: 2052097518528
```

```
In [14]: d1[1]
```

```
Out[14]: 'one'
```

```
In [15]: d1.get(1)
```

```
Out[15]: 'one'
```

```
In [16]: d1
```

```
Out[16]: {1: 'one', 2: 'two', 3: 'three'}
```

```
In [17]: for i in d1:
          print(i)
```

```
1
2
3
```

```
In [19]: for i in d1:
          print(i, ': ', d1[i])
```

```
1 : one
2 : two
3 : three
```