

Dictionary

```
#Dictionary - dictionary is a collection of key-value pairs.
#key - unique value
#value - can be duplicate value
#dictionary is mutable - we can change the value of the key
d = {} # by default it is a dictionary
d
```

[51] ✓ 0.0s Python

```
... {}
```

```
type(d)
```

[52] ✓ 0.0s Python

```
... dict
```

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

[53] ✓ 0.0s Python

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

```
▶ d1.keys()
```

[54] ✓ 0.0s Python

```
... dict_keys([1, 2, 3])
```

```
d1.values()
```

[55] ✓ 0.0s Python

```
... dict_values(['one', 'two', 'three'])
```

```
d1.items()
```

[56] ✓ 0.0s Python

```
... dict_items([(1, 'one'), (2, 'two'), (3, 'three')])
```

```
d1
```

[121] ✓ 0.0s Python

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

```
d2 = {'name': 'nit', 'age': 30, 'city': 'delhi'}
d2
```

[123] ✓ 0.0s Python

```
... {'name': 'nit', 'age': 30, 'city': 'delhi'}
```

```
demo = dict.fromkeys(d1, d2)
print(demo)
```

[127] ✓ 0.0s Python

```
... {1: {'name': 'nit', 'age': 30, 'city': 'delhi'}, 2: {'name': 'nit', 'age': 30, 'city': 'delhi'}, 3: {'name': 'nit', 'age': 30, 'city': 'delhi'}}
```

```
[128] ✓ 0.0s Python
... d2.pop('city')

[129] ✓ 0.0s Python
... d2.popitem()

[130] ✓ 0.0s Python
... ('age', 30)

[131] ✓ 0.0s Python
... d2
... {'name': 'nit'}

[132] ✓ 0.0s Python
... d2.setdefault('country', 'india')
... 'india'

[133] ✓ 0.0s Python
... d2
... {'name': 'nit', 'country': 'india'}
```

```
[134] ✓ 0.0s Python
... d2.update({'state': 'delhi'})
... d2
... {'name': 'nit', 'country': 'india', 'state': 'delhi'}
```

```
[63] ✓ 0.0s Python
... print(d1[1])
... print(d1[2])
... print(d1[3])
... one
... two
... three
```

```
[62] ✓ 0.0s Python
... print(d1.get(1))
... print(d1.get(2))
... print(d1.get(3))
... one
... two
... three
```

```
for i in d1:
    print(i);
```

[64] ✓ 0.0s Python

... 1
2
3

```
for i in enumerate(d1):
    print(i)
```

[66] ✓ 0.0s Python

... (0, 1)
(1, 2)
(2, 3)

```
#string and raw string
print('c:\nit')
```

[69] ✓ 0.0s Python

... c:
it

```
print(r'c:\nit')
```

[70] ✓ 0.0s Python

... [c:\nit](#)

```
d = {'Name': 'Ram', 'Age': '19', 'Country': 'India'}
print(list(d.items())[1][0])
print(list(d.items())[1][1])
```

[135] ✓ 0.0s Python

... Age
19