```
# pop method

d = {"Venky": 100, "Viky": 200, "Sendhil": 300, "Mani": 400}

d.pop()
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
<ipython-input-1-00c355f1d2f6> in <cell line: 5>()
      3 d = {"Venky": 100, "Viky": 200, "Sendhil": 300, "Mani": 400}
      4
----> 5 d.pop()

TypeError: pop expected at least 1 argument, got 0
```

```
v = d.pop("Sendhil")
print(v)
print(type(v))
print(d)
```

```
300
<class 'int'>
{'Venky': 100, 'Viky': 200, 'Mani': 400}
```

```
print(d)
```

```
{'Venky': 100, 'Viky': 200, 'Mani': 400}
```

```
d.pop("Virat")
```

```
---------------------------------------------------------------------------
KeyError                                  Traceback (most recent call last)
<ipython-input-4-db9b048476c0> in <cell line: 1>()
----> 1 d.pop("Virat")

KeyError: 'Virat'
```

```
v = d.pop("Virat", 10)
print(v)
print(d)
```

```
10
{'Venky': 100, 'Viky': 200, 'Mani': 400}
```

```
v = d.pop("Venky", 10)
print(v)
print(d)
```

```
100
{'Viky': 200, 'Mani': 400}
```

```
# popitem()

d = {"Venky": 100, "Viky": 200, "Sendhil": 300, "Mani": 400}
v = d.popitem() # returns a tuple of last key_value pair
print(v)
print(type(v))
print(d)
```

```
('Mani', 400)
<class 'tuple'>
{'Venky': 100, 'Viky': 200, 'Sendhil': 300}
```

```
d
```

```
{'Venky': 100, 'Viky': 200, 'Sendhil': 300}
```

```
d.popitem("Venky")
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
<ipython-input-12-6d467a517531> in <cell line: 1>()
----> 1 d.popitem("Venky")

TypeError: dict.popitem() takes no arguments (1 given)
```

Applications of List, Tuple, Sets, Frozen Sets & Dictionary:

```
# see notes
```

```
# Immutable dictionary (NOT FOR GATE)

from immutabledict import immutabledict

d = immutabledict({"a":10, "b": 12})

print(d)
print(type(d))
```

```
immutabledict({'a': 10, 'b': 12})
<class 'immutabledict.immutabledict'>
```

```
d['a']
```

```
10
```

```
d['a'] = 100
d
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
<ipython-input-16-11d6b5ab638e> in <cell line: 1>()
----> 1 d['a'] = 100
      2 d

TypeError: 'immutabledict' object does not support item assignment
```