

## Show keys and values together ::

In [1]:

```
d ={'k1':1,'k2':2,'k3':3}
```

In [2]:

```
for i in d:  
    print(i) # It will only print keys not values
```

```
k1  
k2  
k3
```

## Dictionary iterators

In [4]:

```
for k,v in d.items():  
    print(k)  
    print(v)
```

```
k1  
1  
k2  
2  
k3  
3
```

In [5]:

```
def add_num(num1,num2):  
    return num1+num2
```

In [1]:

```
people = {1: {'name': 'John', 'age': '27', 'sex': 'Male'},  
          2: {'name': 'Marie', 'age': '22', 'sex': 'Female'}}  
  
print(people[1]['name'])  
print(people[1]['age'])  
print(people[1]['sex'])
```

```
John  
27  
Male
```

## Insert items in dictionary

In [2]:

```
people = {1: {'name': 'John', 'age': '27', 'sex': 'Male'},
          2: {'name': 'Marie', 'age': '22', 'sex': 'Female'}}

people[3] = {}

people[3]['name'] = 'Luna'
people[3]['age'] = '24'
people[3]['sex'] = 'Female'
people[3]['married'] = 'No'

print(people[3])
```

```
{'name': 'Luna', 'age': '24', 'sex': 'Female', 'married': 'No'}
```

In [3]:

```
people
```

Out[3]:

```
{1: {'age': '27', 'name': 'John', 'sex': 'Male'},
 2: {'age': '22', 'name': 'Marie', 'sex': 'Female'},
 3: {'age': '24', 'married': 'No', 'name': 'Luna', 'sex': 'Female'}}
```

## Delete any item from Dictionary

In [5]:

```
people = {1: {'name': 'John', 'age': '27', 'sex': 'Male'},
          2: {'name': 'Marie', 'age': '22', 'sex': 'Female'},
          3: {'name': 'Luna', 'age': '24', 'sex': 'Female', 'married': 'No'},
          4: {'name': 'Peter', 'age': '29', 'sex': 'Male', 'married': 'Yes'}}

del people[3]['married']
del people[4]['married']

print(people[3])
print(people[4])
```

```
{'name': 'Luna', 'age': '24', 'sex': 'Female'}
{'name': 'Peter', 'age': '29', 'sex': 'Male'}
```

In [6]:

```
people
```

Out[6]:

```
{1: {'age': '27', 'name': 'John', 'sex': 'Male'},  
 2: {'age': '22', 'name': 'Marie', 'sex': 'Female'},  
 3: {'age': '24', 'name': 'Luna', 'sex': 'Female'},  
 4: {'age': '29', 'name': 'Peter', 'sex': 'Male'}}
```

In [7]:

```
del people[3]['sex'] # delete sex from 3rd row
```

In [8]:

```
people
```

Out[8]:

```
{1: {'age': '27', 'name': 'John', 'sex': 'Male'},  
 2: {'age': '22', 'name': 'Marie', 'sex': 'Female'},  
 3: {'age': '24', 'name': 'Luna'},  
 4: {'age': '29', 'name': 'Peter', 'sex': 'Male'}}
```

## Display different items in dictionary (Nested Dictionary) with proper format

In [6]:

```
people = {1: {'Name': 'John', 'Age': '27', 'Sex': 'Male'},  
          2: {'Name': 'Marie', 'Age': '22', 'Sex': 'Female'}}  
  
for p_id, p_info in people.items():  
    print("\nPerson ID:", p_id)  
  
    for key in p_info:  
        print(key + ': ', p_info[key])
```

```
Person ID: 1  
Name: John  
Age: 27  
Sex: Male
```

```
Person ID: 2  
Name: Marie  
Age: 22  
Sex: Female
```