



Dictionary in python

```
In [3]: a={
        "ID": "123ab",
        "color": "black",
        "year": 1964
    }
    print(a)
    print(type(a))

{'ID': '123ab', 'color': 'black', 'year': 1964}
<class 'dict'>
```

```
In [5]: a={
        "ID": "123ab",
        "color": "black",
        "year": 1964
    }
    print(a["color"])
```

black

```
In [10]: a={
        "ID": "123ab",
        "color": "black",
        "color": "blue",
        "year": 1964,
        'b': [1, 2, 3, 4, 5],
        'c': ('a', 'b', 'c', 'd', 'e'),
        'd': False
    }
    print(a)

{'ID': '123ab', 'color': 'blue', 'year': 1964, 'b': [1, 2, 3, 4, 5], 'c': ('a', 'b', 'c', 'd', 'e'), 'd': False}
```

```
In [7]: print(len(a))
```

3

dictionary constructor

```
In [5]: new_dic=dict(name="Lovely dehar", age=27, country="Netherland")
    print(new_dic)
    print(type(new_dic))
```

```
{'name': 'Lovely dehar', 'age': 27, 'country': 'Netherland'}
<class 'dict'>
```

```
In [12]: new_one={"name": "Lovely dehar", "Age": 20, "Country": "Netherlands"}
    print(new_one)
    print(new_one["name"])
    print(new_one.get("Age"))
```

```
{'name': 'Lovely dehar', 'Age': 20, 'Country': 'Netherlands'}  
Lovely dehar  
20
```

```
In [17]: new=new_one.keys()  
print(new)
```

```
dict_keys(['name', 'Age', 'Country'])
```

```
In [19]: now=new_one.values()  
print(now)
```

```
dict_values(['Lovely dehar', 20, 'Netherlands'])
```

```
In [20]: new_one["Age"]=19  
print(new_one)
```

```
{'name': 'Lovely dehar', 'Age': 19, 'Country': 'Netherlands'}
```

```
In [27]: new_one={"name":"Lovely dehar", "Age":20, "Country":"Netherlands",  
               "gender":"Male"}  
print(new_one)  
new_one.update({"Email":"Lovepreetsingh123@mail.com"})  
print(new_one)  
new_one.pop("Age")  
print(new_one)
```

```
{'name': 'Lovely dehar', 'Age': 20, 'Country': 'Netherlands', 'gender': 'Male'}  
{'name': 'Lovely dehar', 'Age': 20, 'Country': 'Netherlands', 'gender': 'Male',  
 'Email': 'Lovepreetsingh123@mail.com'}  
{'name': 'Lovely dehar', 'Country': 'Netherlands', 'gender': 'Male', 'Email':  
 'Lovepreetsingh123@mail.com'}
```

```
In [34]: dict1={1:10,2:20,3:30}  
dict2={4:40,5:50,6:60}  
dict3={ 7:70,8:80,9:90}  
dict4={}  
for d in (dict1,dict2,dict3):dict4.update(d)  
print(dict4)
```

```
{1: 10, 2: 20, 3: 30, 4: 40, 5: 50, 6: 60, 7: 70, 8: 80, 9: 90}
```

```
In [36]: new_go={}  
for i in range(1,16):  
    new_go[i]=[i*i]  
print(new_go)
```

```
{1: [1], 2: [4], 3: [9]}
```

```
In [11]: d={1: 12, 2:13, 3:14, 4:15, 5:16}  
def is_key(x):  
    if x in d:  
        print(x,"is present in dictionary")  
    else:  
        print(x,"is not present in dictionary")  
x=int(input("Enter any number"))
```

```
is_key(x)
```

12 is not present in dictionary

In []: