Dictionary

In [2]:
```
d = {}
d
```

Out[2]:
```
{}
```

In [3]:
```
type(d)
```

Out[3]:
```
dict
```

In [4]:
```
d = {1:'one',2:'two',3:'three'}
d
```

Out[4]:
```
{1: 'one', 2: 'two', 3: 'three'}
```

In [5]:
```
len(d)
```

Out[5]:
```
3
```

In [6]:
```
d.keys()
```

Out[6]:
```
dict_keys([1, 2, 3])
```

In [7]:
```
d.values()
```

Out[7]:
```
dict_values(['one', 'two', 'three'])
```

In [17]:
```
d1= {'one':1,'two':2}
d1
```

Out[17]:
```
{'one': 1, 'two': 2}
```

In [9]:
```
d == d1
```

Out[9]:
```
False
```

In [10]:
```
d <=d1
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[10], line 1
----> 1 d <=d1

TypeError: '<=' not supported between instances of 'dict' and 'dict'
```

In [13]:
```
d[1]
```

Out[13]:
```
'one'
```

In [18]:
```
d1.get(2)
```

In [20]:
```
d1={'Name':'Asif' , 'ID': 74123 , 'DOB': 1991 , 'job' :'Analyst'}
d1
```

Out[20]: {'Name': 'Asif', 'ID': 74123, 'DOB': 1991, 'job': 'Analyst'}

In [22]:
```
d1.get(1)
d1
```

Out[22]: {'Name': 'Asif', 'ID': 74123, 'DOB': 1991, 'job': 'Analyst'}

In [23]:
```
d1['Name']
```

Out[23]: 'Asif'

In [24]:
```
d1.get('job')
```

Out[24]: 'Analyst'

In [25]:
```
d1['DOB']= '1995'       #change the value
d1
```

Out[25]: {'Name': 'Asif', 'ID': 74123, 'DOB': '1995', 'job': 'Analyst'}

In [26]:
```
d1
```

Out[26]: {'Name': 'Asif', 'ID': 74123, 'DOB': '1995', 'job': 'Analyst'}

In [27]:
```
d1['city']= 'Hyd'   #adding values to dictionary
d1
```

Out[27]: {'Name': 'Asif', 'ID': 74123, 'DOB': '1995', 'job': 'Analyst', 'city': 'Hyd'}

In [28]:
```
d1.get('city')
```

Out[28]: 'Hyd'

In [30]:
```
d1.pop('city')    #delete key and value from dict
d1
```

Out[30]: {'Name': 'Asif', 'ID': 74123, 'DOB': '1995', 'job': 'Analyst'}

In [31]:
```
d1.popitem()
d1             #delete randomly
```

Out[31]: {'Name': 'Asif', 'ID': 74123, 'DOB': '1995'}

In [32]:
```
d1={'Name':'Asif' , 'ID': 74123 , 'DOB': 1991 , 'job' :'Analyst'}
d1
```

Out[32]: {'Name': 'Asif', 'ID': 74123, 'DOB': 1991, 'job': 'Analyst'}

In [33]:
```
d2 = d1.copy()
d2
```

Out[33]: {'Name': 'Asif', 'ID': 74123, 'DOB': 1991, 'job': 'Analyst'}

In [34]:
```
id(d1)
```

Out[34]: 2982608272576

In [35]:
```
id(d2)
```

Out[35]: 2982609825856

In [36]:
```
id(d1) == id(d2)
```

Out[36]: False

In [37]:
```
d3= d1.copy("19th june.ipynb")
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[37], line 1
----> 1 d3= d1.copy("19th june.ipynb")

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

In [2]:
```
d1={'Name':'Asif' , 'ID': 74123 , 'DOB': 1991 , 'job' :'Analyst'}
d1
```

Out[2]: {'Name': 'Asif', 'ID': 74123, 'DOB': 1991, 'job': 'Analyst'}

In [3]:
```
for i in d1:        #prints only key values
    print(i)
```

```
Name
ID
DOB
job
```

In [4]:
```
for i in d1:
    print(i , ':' , d1[i])       #prints with values also
```

```
Name : Asif
ID : 74123
DOB : 1991
job : Analyst
```

In [41]:
```
'Name' in d1
```

Out[41]: True

In [42]:
```
all(d1)
```

Out[42]: True

In [5]:
```
any(d1)
```

Out[5]: True

In [ ]: