Dict {key:Value}

```
In [1]: d = {} #empty dict creation
         print(d, type(d))
        {} <class 'dict'>
 In [2]: di = {1:1,2:2} # dict creation both key and value with int
 Out[2]: {1: 1, 2: 2}
 In [8]: mydict = {1:'one' , 2:'two' , 3:'three'} # dictionary with integer
         mydict
 Out[8]: {1: 'one', 2: 'two', 3: 'three'}
 In [3]: df = \{1.0:2.0,3.0:30.0\} # dict creation both key and value with
         df
 Out[3]: {1.0: 2.0, 3.0: 30.0}
 In [6]: ds = {'first' : 'first', 'second': 'second'}
 Out[6]: {'first': 'first', 'second': 'second'}
 In [7]: dict = {'s.no':1,'product':'mango'}
         dict
 Out[7]: {'s.no': 1, 'product': 'mango'}
 In [9]: mydicts = {'A':'one' , 'B':'two' , 'C':'three'} # dictionary with c
         mydicts
Out[9]: {'A': 'one', 'B': 'two', 'C': 'three'}
In [10]: mydict = {1:'one' , 'A':'two' , 3:'three', 4:'four', 5:'five'} # di
         mydict
Out[10]: {1: 'one', 'A': 'two', 3: 'three', 4: 'four', 5: 'five'}
In [11]: mydict.keys() # display keys
Out[11]: dict_keys([1, 'A', 3, 4, 5])
In [12]: mydict.values() # display values
Out[12]: dict_values(['one', 'two', 'three', 'four', 'five'])
```

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```
In [13]:
         mydict.items() #dispaly items(pairs)
Out[13]: dict_items([(1, 'one'), ('A', 'two'), (3, 'three'), (4, 'four'), (
          5, 'five')])
In [14]: mydict = {1:'one' , 2:'two' , 'A':['Mahi' , 'Rev' , 'Mayur']} # sin
         mydict
Out[14]: {1: 'one', 2: 'two', 'A': ['Mahi', 'Rev', 'Mayur']}
In [16]: mydict = {1:'one' , 2:'two' , 'A':['Mahi' , 'Rev' , 'Mayur'], 'B':[
         mydict
Out[16]: {1: 'one', 2: 'two', 'A': ['Mahi', 'Rev', 'Mayur'], 'B': ['HR', 'D
          ev', 'enf']}
In [18]: mydict = {1:'one' , 2:'two' , 'A':[{'Name':'Mahi','Age':34} , 'Rev'
         mydict
Out[18]: {1: 'one',
          2: 'two',
           'A': [{'Name': 'Mahi', 'Age': 34}, 'Rev', 'Mayur'],
           'B': ['HR', 'Dev', 'enf']}
In [19]: keys = {'a', 'b', 'c', 'd'}
         mydict1 = dict.fromkeys(keys)
         mydict1
Out[19]: {'c': None, 'b': None, 'd': None, 'a': None}
In [20]: keys = {'a', 'b', 'c', 'd'}
         value = 100
         mydict1 = dict.fromkeys(keys, value)
         mydict1
Out[20]: {'c': 100, 'b': 100, 'd': 100, 'a': 100}
In [21]: keys = \{'a', 'b', 'c', 'd'\}
         value = [1,2,3,4,5]
         mydict1 = dict.fromkeys(keys, value)
         mydict1
Out[21]: {'c': [1, 2, 3, 4, 5],
           'b': [1, 2, 3, 4, 5],
           'd': [1, 2, 3, 4, 5],
           'a': [1, 2, 3, 4, 5]}
In [22]: mydict
Out[22]: {1: 'one',
          2: 'two',
           'A': [{'Name': 'Mahi', 'Age': 34}, 'Rev', 'Mayur'],
           'B': ['HR', 'Dev', 'enf']}
In [23]: mydict[1] #accessing data
```

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```
Out[23]: 'one'
In [24]: mydict['A']
         [{'Name': 'Mahi', 'Age': 34}, 'Rev', 'Mayur']
Out[24]:
In [25]: mydict.get('B') # accessing data by using get method
Out[25]: ['HR', 'Dev', 'enf']
In [26]: mydict1 = {'Name':'Mahi' , 'ID': 1642023 , 'DOB': 1991 , 'job' :'Da
         mydict1
Out[26]: {'Name': 'Mahi', 'ID': 1642023, 'DOB': 1991, 'job': 'Data Analys
         t'}
In [28]: mydict1['Name']
Out[28]: 'Mahi'
In [29]: mydict1.get('job')
Out[29]: 'Data Analyst'
In [43]: mydict1 = {'Name':'Mahi' , 'ID': 1642023 , 'DOB': 1991 , 'job' :'Da
         mydict1
Out[43]: {'Name': 'Mahi',
           'ID': 1642023,
           'DOB': 1991,
           'job': 'Data Analyst',
           'Adress': 'India'}
In [31]: mydict1['DOB'] = 1992
         mydict1['Adress'] = 'Paris,India'
         mydict1
Out[31]: {'Name': 'Mahi',
           'ID': 1642023,
           'DOB': 1992,
           'job': 'Data Analyst',
           'Adress': 'Paris, India'}
In [32]: dict1 = {'D0B':1995}
         mydict1.update(dict1)
         mydict1
Out[32]: {'Name': 'Mahi',
           'ID': 1642023,
           'DOB': 1995,
           'job': 'Data Analyst',
           'Adress': 'Paris, India'}
In [33]: mydict1.pop('job')
```

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```
mydict1
Out[33]: {'Name': 'Mahi', 'ID': 1642023, 'DOB': 1995, 'Adress': 'Paris, Indi
In [36]:
         mydict1.popitem() # random item will be removed
         mydict1
         {'Name': 'Mahi', 'ID': 1642023, 'DOB': 1991, 'job': 'Data Analys
Out[36]:
         t'}
In [37]: del[mydict1['ID']] #ID will be removed
         mydict1
Out[37]: {'Name': 'Mahi', 'DOB': 1991, 'job': 'Data Analyst'}
In [38]: mydict1.clear()
         mydict1
Out[38]: {}
In [41]: del mydict1 #delete dict
                                                  Traceback (most recent cal
        NameError
        l last)
        Cell In[41], line 1
        ----> 1 del mydict1
        NameError: name 'mydict1' is not defined
In [44]: mydict1
Out[44]: {'Name': 'Mahi',
           'ID': 1642023,
           'DOB': 1991,
           'job': 'Data Analyst',
           'Adress': 'India'}
In [46]: mydict2 = mydict1
In [47]: id(mydict2),id(mydict1)
Out[47]: (4454248960, 4454248960)
In [49]: mydict3 = mydict2.copy()
                                    #copy the dict
         mydict3
Out[49]:
         {'Name': 'Mahi',
           'ID': 1642023,
           'DOB': 1991,
           'job': 'Data Analyst',
           'Adress': 'India'}
```

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```
In [50]:
         id(mydict3)
Out[50]: 4454237056
In [51]: mydict3['Adress'] = 'India, Paris'
         mydict3
Out[51]: {'Name': 'Mahi',
           'ID': 1642023,
           'DOB': 1991,
           'job': 'Data Analyst',
           'Adress': 'India, Paris'}
In [52]: mydict2
Out[52]: {'Name': 'Mahi',
           'ID': 1642023,
           'DOB': 1991,
           'job': 'Data Analyst',
           'Adress': 'India'}
In [57]: mydict1
Out[57]:
          {'Name': 'Mahi',
           'ID': 1642023,
           'DOB': 1991,
           'job': 'Data Analyst',
           'Adress': 'India'}
In [ ]: #loop
In [59]: for i in mydict1:
             print(i, ':' , mydict1[i])
                                         #printing key , value
        Name : Mahi
        ID: 1642023
        DOB: 1991
        job : Data Analyst
        Adress: India
In [60]: for i in mydict1:
             print(mydict1[i]) # printing values / items
        Mahi
        1642023
        1991
        Data Analyst
        India
In [61]: mydict1
Out[61]: {'Name': 'Mahi',
           'ID': 1642023,
           'DOB': 1991,
           'job': 'Data Analyst',
           'Adress': 'India'}
```

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In []:	
In []:	
In []:	
In []:	#Membership
In []:	
In []:	
In [63]:	'Name' in mydict1
Out[63]:	True
In [64]:	'Mahi' in mydict1 #membership works on only Key not on values/items
Out[64]:	False
In [65]:	'Adress' in mydict1
Out[65]:	True
In []:	#All/Any
In [66]:	all(mydict1)
Out[66]:	True
In [67]:	<pre>any(mydict1) # if any value is 0 then only it will declare fals</pre>
Out[67]:	True
In []:	

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