```
mydict = dict()

mydict

{}

mydict = {}
mydict

{}

mydict ={1:'one',2:'two',3:'three',4:'four'}
mydict

{1: 'one', 2: 'two', 3: 'three', 4: 'four'}

mydict = dict({1:'one' , 2:'two' , 3:'three',4:'four'}) # Create
dictionary using dict()
mydict

{1: 'one', 2: 'two', 3: 'three', 4: 'four'}

mydict={'A':'one','B':'Two','C':'three'}
mydict

{'A': 'one', 'B': 'Two', 'C': 'three'}

mydict.keys()

dict_keys(['A', 'B', 'C'])

mydict.values()

dict_values(['one', 'Two', 'three'])

mydict.items()

dict_items([('A', 'one'), ('B', 'Two'), ('C', 'three')])

mydict = {1:'one' , 2:'two' , 'A':['Mrunal' , 'Vijay' , 'Deelip']} #
dictionary with
mydict

{1: 'one', 2: 'two', 'A': ['Mrunal', 'Vijay', 'Deelip']}

mydict = {1:'one' , 2:'two' , 'A':['Mrunal' , 'Vijay' , 'Deelip'],'B':
[('Bat', 'cat', 'hat')]} # dictionary with
mydict

{1: 'one',
 2: 'two',
 'A': ['Mrunal', 'Vijay', 'Deelip'],
 'B': [('Bat', 'cat', 'hat')]}
```

```
keys = {'a' , 'b' , 'c' , 'd'}
mydict3 = dict.fromkeys(keys) # Create a dictionary from a sequence of keys
mydict3
```

```
{'c': None, 'b': None, 'a': None, 'd': None}
```

```
keys = {'a' , 'b' , 'c' , 'd'}
value = 10
mydict3 = dict.fromkeys(keys , value) # Create a dictionary from a sequence of key
mydict3
```

```
{'c': 10, 'b': 10, 'a': 10, 'd': 10}
```

```
keys = {'a' , 'b' , 'c' , 'd'}
value = [10,20,30]
mydict3 = dict.fromkeys(keys , value)
mydict3
```

```
{'c': [10, 20, 30], 'b': [10, 20, 30], 'a': [10, 20, 30], 'd': [10, 20, 30]}
```

```
value.append(40) #it will add the value to every key
mydict3
```

```
{'c': [10, 20, 30, 40, 40],
 'b': [10, 20, 30, 40, 40],
 'a': [10, 20, 30, 40, 40],
 'd': [10, 20, 30, 40, 40]}
```

```
mydict[1] # Access item using key
```

```
'one'
```

```
mydict.get(1) # Access item using get() method
```

```
'one'
```

```
mydict1 = {'Name':'Asif' , 'ID': 74123 , 'DOB': 1991 , 'job' :'Analyst'}
mydict1
```

```
{'Name': 'Asif', 'ID': 74123, 'DOB': 1991, 'job': 'Analyst'}
```

```
mydict1['Name'] # Access item using key
```

```
'Asif'
```

```
mydict1.get('job') # Access item using get() method
```

```
'Analyst'
```

```
mydict1['DOB'] = 1992 # Changing Dictionary Items
mydict1['Address'] = 'Delhi'
mydict1
```

```
{'Name': 'Asif',
 'ID': 74123,
 'DOB': 1992,
 'job': 'Analyst',
 'Address': 'Delhi'}
```

```
dict1 = {'DOB':1995}
mydict1.update(dict1)
mydict1
```

```
{'Name': 'Asif',
 'ID': 74123,
 'DOB': 1995,
 'job': 'Analyst',
 'Address': 'Delhi'}
```

```
mydict1['Job'] = 'Analyst' # Adding items in the dictionary
mydict1
```

```
{'Name': 'Asif',
 'ID': 74123,
 'DOB': 1995,
 'job': 'Analyst',
 'Address': 'Delhi',
 'Job': 'Analyst'}
```

```
mydict1.pop('Job') # Removing items in the dictionary using Pop method
mydict1
```

```
{'Name': 'Asif',
 'ID': 74123,
 'DOB': 1995,
 'job': 'Analyst',
 'Address': 'Delhi'}
```

```
mydict1.popitem() # A random item is removed
```

```
('Address', 'Delhi')
```

```
mydict1
```

```
{'Name': 'Asif', 'ID': 74123, 'DOB': 1995, 'job': 'Analyst'}
```

```
del[mydict1['ID']] # Removing item using del method
mydict1
```

```
{'Name': 'Asif', 'DOB': 1995, 'job': 'Analyst'}
```

```
mydict1.clear() # Delete all items of the dictionary using clear
method
mydict1
```

```
{}
```

```
del mydict1 # Delete the dictionary object
mydict1
```

```
---------------------------------------------------------------------
-----
NameError                                 Traceback (most recent call
last)
Cell In[58], line 2
      1 del mydict1 # Delete the dictionary object
----> 2 mydict1

NameError: name 'mydict1' is not defined
```

```
mydict = {'Name':'Vijay' , 'ID': 2607 , 'DOB': 1997 , 'Address' :
'Banglore'}
mydict
```

```
{'Name': 'Vijay', 'ID': 2607, 'DOB': 1997, 'Address': 'Banglore'}
```

```
mydict1 = mydict # Create a new reference "mydict1"
```

```
id(mydict) , id(mydict1)
```

```
(2527459072064, 2527459072064)
```

```
mydict2 = mydict.copy() # Create a copy of the dictionary
```

```
mydict
```

```
{'Name': 'Vijay', 'ID': 2607, 'DOB': 1997, 'Address': 'Banglore'}
```

```
for i in mydict:
    print(mydict1[i]) # Dictionary items
```

```
Vijay
2607
1997
Banglore
```

```
for i in mydict1:
    print(i , ':' , mydict1[i]) # Key & value pair
```

```
Name : Vijay
ID : 2607
DOB : 1997
Address : Banglore
```

```
'Name' in mydict1 # Test if a key is in a dictionary or not.
```

```
True
```

```
'Vijay' in mydict1 # Membership test can be only done for keys.
```

```
False
```