

```
In [1]: D={}
        D
```

```
Out[1]: {}
```

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

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

```
In [5]: D={1:'one',2:'two',3:'three'}
        D
```

```
Out[5]: {1: 'one', 2: 'two', 3: 'three'}
```

```
In [9]: D.keys()
```

```
Out[9]: dict_keys([1, 2, 3])
```

```
In [11]: D.values()
```

```
Out[11]: dict_values(['one', 'two', 'three'])
```

```
In [13]: D.items()
```

```
Out[13]: dict_items([(1, 'one'), (2, 'two'), (3, 'three')])
```

```
In [25]: d1={1:'one',2:'two',3:'three',4:['vaishu','shiny'],5:'five'}
        d1
```

```
Out[25]: {1: 'one', 2: 'two', 3: 'three', 4: ['vaishu', 'shiny'], 5: 'five'}
```

```
In [27]: d1.keys()
```

```
Out[27]: dict_keys([1, 2, 3, 4, 5])
```

```
In [29]: d1.values()
```

```
Out[29]: dict_values(['one', 'two', 'three', ['vaishu', 'shiny'], 'five'])
```

```
In [31]: keys='a','b','c','d'
        d2=dict.fromkeys(keys)
        d2
```

```
Out[31]: {'a': None, 'b': None, 'c': None, 'd': None}
```

```
In [35]: keys='a','b','c','d'
        value=20
        d2=dict.fromkeys(keys,value)
        d2
```

```
Out[35]: {'a': 20, 'b': 20, 'c': 20, 'd': 20}
```

```
In [37]: keys='p','q','r'
value=[10,20,30]
d3=dict.fromkeys(keys,value)
d3
```

```
Out[37]: {'p': [10, 20, 30], 'q': [10, 20, 30], 'r': [10, 20, 30]}
```

```
In [39]: value.append(40)
d3
```

```
Out[39]: {'p': [10, 20, 30, 40], 'q': [10, 20, 30, 40], 'r': [10, 20, 30, 40]}
```

```
In [53]: d={10:'one',20:'two',30:'three'}
d
```

```
Out[53]: {10: 'one', 20: 'two', 30: 'three'}
```

```
In [59]: dict={'name':'vaishnavi','dob':03/03/2002,'Id':33,'job':'data analyst'} #03/03/2002
dict
```

Cell In[59], line 1

```
dict={'name':'vaishnavi','dob':03/03/2002,'Id':33,'job':'data analyst'}
```

^

SyntaxError: leading zeros in decimal integer literals are not permitted; use an 0o prefix for octal integers

```
In [79]: dict={'Name':'Vaishu', 'DOB': 2002 , 'job':'Analyst','Id':33}
dict
```

```
Out[79]: {'Name': 'Vaishu', 'DOB': 2002, 'job': 'Analyst', 'Id': 33}
```

```
In [67]: mydict1 = {'Name':'Asif' , 'ID': 74123 , 'DOB': 1991 , 'job' : 'Analyst'}
mydict1
```

```
Out[67]: {'Name': 'Asif', 'ID': 74123, 'DOB': 1991, 'job': 'Analyst'}
```

```
In [73]: dict['Name']
```

```
Out[73]: 'Vaishu'
```

```
In [75]: d
```

```
Out[75]: {10: 'one', 20: 'two', 30: 'three'}
```

```
In [77]: d[10]
```

```
Out[77]: 'one'
```

```
In [83]: dict['job']='data analyst' #change the items
dict
```

```
Out[83]: {'Name': 'Vaishu', 'DOB': 2002, 'job': 'data analyst', 'Id': 33}
```

```
In [85]: dict['Address']='Hyderabad' #adding elements  
dict
```

```
Out[85]: {'Name': 'Vaishu',  
         'DOB': 2002,  
         'job': 'data analyst',  
         'Id': 33,  
         'Address': 'Hyderabad'}
```

```
In [87]: d
```

```
Out[87]: {10: 'one', 20: 'two', 30: 'three'}
```

```
In [95]: d.pop(10)for i
```

```
Out[95]: 'one'
```

```
In [97]: d
```

```
Out[97]: {20: 'two', 30: 'three'}
```

```
In [99]: dict
```

```
Out[99]: {'Name': 'Vaishu',  
         'DOB': 2002,  
         'job': 'data analyst',  
         'Id': 33,  
         'Address': 'Hyderabad'}
```

```
In [103... dict.popitem() #popitem will randomly take items , no arg taken
```

```
Out[103... ('Address', 'Hyderabad')
```

```
In [105... dict
```

```
Out[105... {'Name': 'Vaishu', 'DOB': 2002, 'job': 'data analyst', 'Id': 33}
```

```
In [107... dict.keys()
```

```
Out[107... dict_keys(['Name', 'DOB', 'job', 'Id'])
```

```
In [111... dict.get('DOB')
```

```
Out[111... 2002
```

```
In [115... dict.copy() #no arguments taken
```

```
Out[115... {'Name': 'Vaishu', 'DOB': 2002, 'job': 'data analyst', 'Id': 33}
```

```
In [117... d=dict.copy()  
d
```

```
Out[117... {'Name': 'Vaishu', 'DOB': 2002, 'job': 'data analyst', 'Id': 33}
```

```
In [121... for i in dict:  
            print(i,':', dict[i])
```

```
Name : Vaishu  
DOB : 2002  
job : data analyst  
Id : 33
```

```
In [127... for i in dict:  
            print(dict[i])
```

```
Vaishu  
2002  
data analyst  
33
```

```
In [129... dict
```

```
Out[129... {'Name': 'Vaishu', 'DOB': 2002, 'job': 'data analyst', 'Id': 33}
```

```
In [131... 'Name' in dict #membership
```

```
Out[131... True
```

```
In [133... 35 in dict
```

```
Out[133... False
```

```
In [135... all(dict)
```

```
Out[135... True
```

```
In [137... any(dict)
```

```
Out[137... True
```

```
In [141... dict['address']='Hyderabad'  
dict
```

```
Out[141... {'Name': 'Vaishu',  
            'DOB': 2002,  
            'job': 'data analyst',  
            'Id': 33,  
            'address': 'Hyderabad'}
```

```
In [143... dict['experience']=0  
dict
```

```
Out[143... {'Name': 'Vaishu',  
            'DOB': 2002,  
            'job': 'data analyst',  
            'Id': 33,  
            'address': 'Hyderabad',  
            'experience': 0}
```

```
In [145... all(dict)
```

```
Out[145... True
```

```
In [147... any(dict)
```

```
Out[147... True
```

```
In [ ]:
```