

```
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 [7]: D.keys()
```

```
Out[7]: dict_keys([1, 2, 3])
```

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

```
Out[9]: dict_values(['one', 'two', 'three'])
```

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

```
Out[11]: dict_items([(1, 'one'), (2, 'two'), (3, 'three')])
```

```
In [15]: d1 = {1:'one',2:'two',3:'three',4:['kavya','kim'],5:'five'}  
d1
```

```
Out[15]: {1: 'one', 2: 'two', 3: 'three', 4: ['kavya', 'kim'], 5: 'five'}
```

```
In [17]: d1.keys()
```

```
Out[17]: dict_keys([1, 2, 3, 4, 5])
```

```
In [20]: d1.values()
```

```
Out[20]: dict_values(['one', 'two', 'three', ['kavya', 'kim'], 'five'])
```

```
In [22]: keys = 'a','b','c','d'  
d2 = dict.fromkeys(keys)  
d2
```

```
Out[22]: {'a': None, 'b': None, 'c': None, 'd': None}
```

```
In [24]: keys = 'a','b'  
value = 2  
d2 = dict.fromkeys(keys,value)  
d2
```

```
Out[24]: {'a': 2, 'b': 2}
```

```
In [36]: keys = 'p','q','r'  
values = [10,20,30]
```

```
d3=dict.fromkeys(keys,value)
d3
```

Out[36]: {'p': 2, 'q': 2, 'r': 2}

In [38]: d3

Out[38]: {'p': 2, 'q': 2, 'r': 2}

In [48]: dict = {'name': 'kavya', 'dob': 13/02/2002, 'id': 9}
dict

Cell In[48], line 1

```
dict = {'name': 'kavya', 'dob': 13/02/2002, 'id': 9}
```

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

In [46]: dict = {'Name': 'Kavya', 'DOB': 2002, 'ID': 9}
dict

Out[46]: {'Name': 'Kavya', 'DOB': 2002, 'ID': 9}

In [50]: mydict1 = {'Name': 'Asif', 'ID': 74123}
mydict1

Out[50]: {'Name': 'Asif', 'ID': 74123}

In [52]: dict['Name']

Out[52]: 'Kavya'

In [57]: D

Out[57]: {1: 'one', 2: 'two', 3: 'three'}

In [61]: D[1]

Out[61]: 'one'

In [63]: dict['job'] = 'analyst' *#change the item*
dict

Out[63]: {'Name': 'Kavya', 'DOB': 2002, 'ID': 9, 'job': 'analyst'}

In [65]: dict['address'] = 'hyderabad' *#adding elements*
dict

Out[65]: {'Name': 'Kavya',
 'DOB': 2002,
 'ID': 9,
 'job': 'analyst',
 'address': 'hyderabad'}

In [67]: D

Out[67]: {1: 'one', 2: 'two', 3: 'three'}

```
In [69]: dict
```

```
Out[69]: {'Name': 'Kavya',  
          'DOB': 2002,  
          'ID': 9,  
          'job': 'analyst',  
          'address': 'hyderabad'}
```

```
In [71]: dict.popitem()
```

```
Out[71]: ('address', 'hyderabad')
```

```
In [73]: dict
```

```
Out[73]: {'Name': 'Kavya', 'DOB': 2002, 'ID': 9, 'job': 'analyst'}
```

```
In [75]: dict.keys()
```

```
Out[75]: dict_keys(['Name', 'DOB', 'ID', 'job'])
```

```
In [77]: dict.get('DOB')
```

```
Out[77]: 2002
```

```
In [79]: dict.copy()
```

```
Out[79]: {'Name': 'Kavya', 'DOB': 2002, 'ID': 9, 'job': 'analyst'}
```

```
In [81]: d = dict.copy()  
d
```

```
Out[81]: {'Name': 'Kavya', 'DOB': 2002, 'ID': 9, 'job': 'analyst'}
```

```
In [83]: for i in dict:  
          print(i,':',dict[i])
```

```
Name : Kavya  
DOB : 2002  
ID : 9  
job : analyst
```

```
In [85]: for i in dict:  
          print(dict[i])
```

```
Kavya  
2002  
9  
analyst
```

```
In [87]: dict
```

```
Out[87]: {'Name': 'Kavya', 'DOB': 2002, 'ID': 9, 'job': 'analyst'}
```

```
In [89]: 'Name' in dict
```

```
Out[89]: True
```

```
In [91]: 9 in dict
```

```
Out[91]: False
```

```
In [93]: all(dict)
```

```
Out[93]: True
```

```
In [95]: any(dict)
```

```
Out[95]: True
```

```
In [97]: dict['address']='hyderabad'  
dict
```

```
Out[97]: {'Name': 'Kavya',  
          'DOB': 2002,  
          'ID': 9,  
          'job': 'analyst',  
          'address': 'hyderabad'}
```

```
In [99]: dict['experience']=0  
dict
```

```
Out[99]: {'Name': 'Kavya',  
          'DOB': 2002,  
          'ID': 9,  
          'job': 'analyst',  
          'address': 'hyderabad',  
          'experience': 0}
```

```
In [101... all(dict)
```

```
Out[101... True
```

```
In [103... any(dict)
```

```
Out[103... True
```

```
In [ ]:
```