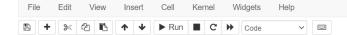```
In [1]: dict = {1: 'python', 2: 'sql', 3: 'java', 4: 'c++'}
        print(dict)
```

```
{1: 'python', 2: 'sql', 3: 'java', 4: 'c++'}
```

```
In [2]: dict = {'name': 'John', 'mob no.': [444, 999]}
        print(dict)
```

```
{'name': 'John', 'mob no.': [444, 999]}
```

```
In [3]: dict = {'name': 'John', 'mob no.': [444, 999]}
        print(dict[0])
```

```
---------------------------------------------------------------------------
KeyError                                  Traceback (most recent call last)
C:\Users\PRATIK~1\AppData\Local\Temp/ipykernel_19216/3268610960.py in <module>
      1 dict = {'name': 'John', 'mob no.': [444, 999]}
----> 2 print(dict[0])

KeyError: 0
```

```
In [4]: dict = {'name': 'John', 'mob no.': [444, 999]}
        print(dict['name'])
```

```
John
```

```
In [5]: dict = {'name': 'John', 'mob no.': [444, 999]}
        print(dict['name'], dict['mob no.'])
```

```
John [444, 999]
```

```
In [6]: dict = {'name': 'John', 'mob no.': [444, 999]}
        print(type(dict)
```

```
  File "C:\Users\PRATIK~1\AppData\Local\Temp/ipykernel_19216/3296455406.py", line 2
    print(type(dict)
                    ^
SyntaxError: '(' was never closed
```

```
In [7]: dict = {'name': 'John', 'mob no.': [444, 999]}
        print(type(dict))
```

```
<class 'dict'>
```

```
In [8]: my_dict = dict({1: 'apple', 2: 'orange', 3: 'banana', 4: 'kiwi'})
        print(my_dict)
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
C:\Users\PRATIK~1\AppData\Local\Temp/ipykernel_19216/2243313796.py in <module>
----> 1 my_dict = dict({1: 'apple', 2: 'orange', 3: 'banana', 4: 'kiwi'})
      2 print(my_dict)

TypeError: 'dict' object is not callable
```

```
In [9]: my_dict = dict([(1, 'banana'), (2, 'orange')])
        print(my_dict)
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
C:\Users\PRATIK~1\AppData\Local\Temp/ipykernel_19216/145246628.py in <module>
----> 1 my_dict = dict([(1, 'banana'), (2, 'orange')])
      2 print(my_dict)

TypeError: 'dict' object is not callable
```

```
In [10]: my_dict = dict([(1,'apple'), (2,'ball')])
         print(my_dict)
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
C:\Users\PRATIK~1\AppData\Local\Temp/ipykernel_19216/2401074593.py in <module>
----> 1 my_dict = dict([(1,'apple'), (2,'ball')])
      2 print(my_dict)

TypeError: 'dict' object is not callable
```

```
In [11]: dict = {'name':'Ram', 'age': '22'}
         print(dict['address'])
```

In [12]:
```python
dict = {'name':'Ram', 'age': '22'}
print(dict.get('name'))
```

Ram

In [13]:
```python
dict = {'name':'Ram', 'age': '22'}
print(dict.get('age'))
```

22

In [14]:
```python
dict = {'name':'Ram', 'age': '22'}
dict['age'] = 27
print(dict)
```

{'name': 'Ram', 'age': 27}

In [15]:
```python
dict = {'name':'Ram', 'age': '22'}
dict['name'] = 'Ramanujun'
print(dict)
```

{'name': 'Ramanujun', 'age': '22'}

In [16]:
```python
dict = {'name':'Ram', 'age': '27'}
dict['email'] = 'abc@gmail.com'
print(dict)
```

{'name': 'Ram', 'age': '27', 'email': 'abc@gmail.com'}

In [17]:
```python
dict = {'name':'Ram', 'age': '27'}
for i in dict:
    print(i)
```

name
age

In [18]:
```python
dict = {'name':'Ram', 'age': '27'}
for i in dict.values():
    print(i)
```

Ram
27

In [19]:
```python
dict = {'Mahindra', 'Tata', 'Kia', 'Range Rover'}
dict.pop()
print(dict)
```

{'Mahindra', 'Kia', 'Range Rover'}

In [20]:
```python
dict = {'Mahindra', 'Kia', 'Range Rover'}
dict.pop()
print(dict)
```

{'Range Rover', 'Kia'}

In [21]:
```python
dict = {'Mahinra': 'XUV700', 'Tata': 'Nexon EV', 'Maruti': 'S-Cross'}
dict.pop()
print(dict)
```

In [22]:
```python
dict = {'Mahindra', 'Kia', 'Range Rover'}
dict.pop(0)
print(dict)
```

In [23]:
```python
dict = {'Mahindra', 'Kia', 'Range Rover'}
dict.pop(2)
print(dict)
```

```
---------------------------------------------------------------------------
```

```
TypeError                                 Traceback (most recent call last)
C:\Users\PRATIK~1\AppData\Local\Temp/ipykernel_19216/1143028883.py in <module>
      1 dict = {'Mahindra', 'Kia', 'Range Rover'}
----> 2 dict.pop(2)
      3 print(dict)

TypeError: set.pop() takes no arguments (1 given)
```

In [24]:
```python
dict = {'Mahindra': 'XUV700', 'Tata': 'Nexon EV', 'Maruti': 'S-Cross'}
dict.pop('tata')
print(dict)
```

```
---------------------------------------------------------------------------
KeyError                                  Traceback (most recent call last)
C:\Users\PRATIK~1\AppData\Local\Temp/ipykernel_19216/3181165937.py in <module>
      1 dict = {'Mahindra': 'XUV700', 'Tata': 'Nexon EV', 'Maruti': 'S-Cross'}
----> 2 dict.pop('tata')
      3 print(dict)

KeyError: 'tata'
```

In [25]:
```python
dict = {'Mahindra': 'XUV700', 'Tata': 'Nexon EV', 'Maruti': 'S-Cross'}
dict.pop('Tata')
print(dict)
```

```
{'Mahindra': 'XUV700', 'Maruti': 'S-Cross'}
```

In [26]:
```python
dict = {'Mahindra': 'XUV700', 'Tata': 'Nexon EV', 'Maruti': 'S-Cross'}
dict.values.pop('XUV700')
print(dict)
```

```
---------------------------------------------------------------------------
AttributeError                            Traceback (most recent call last)
C:\Users\PRATIK~1\AppData\Local\Temp/ipykernel_19216/90443909.py in <module>
      1 dict = {'Mahindra': 'XUV700', 'Tata': 'Nexon EV', 'Maruti': 'S-Cross'}
----> 2 dict.values.pop('XUV700')
      3 print(dict)

AttributeError: 'builtin_function_or_method' object has no attribute 'pop'
```

In [27]:
```python
dict = {'Mahindra': 'XUV700', 'Tata': 'Nexon EV', 'Maruti': 'S-Cross'}
dict.pop('Tata', 'Nexon Ev')
print(dict)
```

```
{'Mahindra': 'XUV700', 'Maruti': 'S-Cross'}
```

In [28]:
```python
dict = {'Mahindra': 'XUV700', 'Tata': 'Nexon EV', 'Maruti': 'S-Cross'}
dict.popitem()
print(dict)
```

```
{'Mahindra': 'XUV700', 'Tata': 'Nexon EV'}
```

In [29]:
```python
del dict
print(dict)
```

```
<class 'dict'>
```

In [30]:
```python
print('Nexon Ev' in dict)
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
C:\Users\PRATIK~1\AppData\Local\Temp/ipykernel_19216/1160757976.py in <module>
----> 1 print('Nexon Ev' in dict)

TypeError: argument of type 'type' is not iterable
```

In [31]:
```python
dict = {'Mahindra': 'XUV700', 'Tata': 'Nexon EV', 'Maruti': 'S-Cross'}
print('Nexon Ev' in dict)
```

```
False
```

In [32]:
```python
dict = {'Mahindra': 'XUV700', 'Tata': 'Nexon EV', 'Maruti': 'S-Cross'}
print('Nexon Ev' in dict.values())
```

```
False
```

In [33]:
```python
dict = {'Mahindra': 'XUV700', 'Tata': 'Nexon EV', 'Maruti': 'S-Cross'}
print('Mahindra' in dict)
```

```
True
```

In [34]:
```python
dict = {'Mahindra': 'XUV700', 'Tata': 'Nexon EV', 'Maruti': 'S-Cross'}
print(dict.values())
```

```
dict_values(['XUV700', 'Nexon EV', 'S-Cross'])
```

In [35]:
```python
dict = {'Mahindra': 'XUV700', 'Tata': 'Nexon EV', 'Maruti': 'S-Cross'}
print('XUV700' in dict.values())
```

```
True
```

```
In [36]: dict = {'Mahindra': 'XUV700', 'Tata': 'Nexon EV', 'Maruti': 'S-Cross'}
         print('Nexon Ev' in dict.values())

         False

In [37]: dict = {'Mahindra': 'XUV700', 'Tata': 'Nexon EV', 'Maruti': 'S-Cross'}
         print('Nexon EV' in dict.values())

         True

In [38]: dict = {'Mahindra': 'XUV700', 'Tata': 'Nexon EV', 'Maruti': 'S-Cross'}
         res = sorted(dict)
         print(res)

         ['Mahindra', 'Maruti', 'Tata']

In [ ]:
```