1. Python | Ways to remove a key from dictionary.

```
In [1]: test_dict = {"Arushi" : 22, "Anuradha" : 21, "Mani" : 21, "Haritha" : 21}

print ("The dictionary before performing remove is : " + str(test_dict))

removed_value = test_dict.pop('Mani')

print ("The dictionary after remove is : " + str(test_dict))

print ("The removed key's value is : " + str(removed_value))

print ('\r')

removed_value = test_dict.pop('Manjeet', 'No Key found')

print ("The dictionary after remove is : " + str(test_dict))

print ("The removed key's value is : " + str(removed_value))

The dictionary before performing remove is : {'Arushi': 22, 'Anuradha': 21, 'Mani': 21, 'Haritha': 21}

The dictionary after remove is : {'Arushi': 22, 'Anuradha': 21, 'Haritha': 21}

The dictionary after remove is : {'Arushi': 22, 'Anuradha': 21, 'Haritha': 21}

The dictionary after remove is : {'Arushi': 22, 'Anuradha': 21, 'Haritha': 21}

The removed key's value is : No Key found
```

itemgetter. In [2]: from operator import itemgetter

2. Ways to sort list of dictionaries by values in Python – Using

```
my_list = [{ "name" : "Will", "age" : 56},
          { "name" : "Rob", "age" : 20 },
          { "name" : "Mark" , "age" : 34 },
{ "name" : "John" , "age" : 24 }]
print("The list sorted by age is : ")
print(sorted(my_list, key=itemgetter('age')))
print("The list sorted by age and name is : ")
print(sorted(my_list, key=itemgetter('age', 'name')))
print("The list sorted by age in descending order is : ")
print(sorted(my_list, key=itemgetter('age'), reverse = True))
The list sorted by age is:
[{'name': 'Rob', 'age': 20}, {'name': 'John', 'age': 24}, {'name': 'Mark', 'age': 34}, {'name': 'Will', 'age': 5
6}]
The list sorted by age and name is :
[{'name': 'Rob', 'age': 20}, {'name': 'John', 'age': 24}, {'name': 'Mark', 'age': 34}, {'name': 'Will', 'age': 5
The list sorted by age in descending order is :
[{'name': 'Will', 'age': 56}, {'name': 'Mark', 'age': 34}, {'name': 'John', 'age': 24}, {'name': 'Rob', 'age': 2
0}]
```


3. Ways to sort list of dictionaries by values in Python – Using

lambda function

In [6]: dict_1 = {1: 'a', 2: 'b'}

In [7]: from itertools import product

test_dict = {'month' : [1, 2, 3],

In [9]: **from** collections **import** OrderedDict

from collections import Counter

In [11]: test_dict = {"Gfg" : 1, "is" : 3, "Best" : 2}

The original dictionary is : {'Gfg': 1, 'is': 3, 'Best': 2}
The ordered keys and values : ['Gfg', 'is', 'Best', 1, 3, 2]

def winner(input):

In [10]:

```
print ("The list printed sorting by age: ")
print (sorted(lis, key = lambda i: i['age']))

print ("\r")

print ("The list printed sorting by age and name: ")
print (sorted(lis, key = lambda i: (i['age'], i['name'])))

print ("\r")

print ("The list printed sorting by age in descending order: ")
print (sorted(lis, key = lambda i: i['age'], reverse=True))

The list printed sorting by age:
[{'name': 'Nikhil', 'age': 19}, {'name': 'Nandini', 'age': 20}, {'name': 'Manjeet', 'age': 20}]

The list printed sorting by age and name:
[{'name': 'Nikhil', 'age': 19}, {'name': 'Manjeet', 'age': 20}, {'name': 'Nandini', 'age': 20}]

The list printed sorting by age in descending order:
[{'name': 'Nandini', 'age': 20}, {'name': 'Manjeet', 'age': 20}, {'name': 'Nikhil', 'age': 19}]
```

```
dict_2 = {2: 'c', 4: 'd'}

print(dict_1 | dict_2)

{1: 'a', 2: 'c', 4: 'd'}

5. Python — Convert key-values list to flat dictionary
```

'name' : ['Jan', 'Feb', 'March']} print("The original dictionary is : " + str(test_dict))

4. Python | Merging two Dictionaries

```
res = dict(zip(test_dict['month'], test_dict['name']))
print("Flattened dictionary : " + str(res))
The original dictionary is : {'month': [1, 2, 3], 'name': ['Jan', 'Feb', 'March']}
Flattened dictionary : {1: 'Jan', 2: 'Feb', 3: 'March'}

6. Python — Insertion at the beginning in OrderedDict
In [8]: from collections import OrderedDict
```

iniordered_dict.update({'manjeet':'3'}) iniordered_dict.move_to_end('manjeet', last = False)

Resultant Dictionary: OrderedDict([('manjeet', '3'), ('akshat', '1'), ('nikhil', '2')])

iniordered_dict = OrderedDict([('akshat', '1'), ('nikhil', '2')])

print ("Resultant Dictionary : "+str(iniordered_dict))

```
def checkOrder(input, pattern):
    dict = OrderedDict.fromkeys(input)

ptrlen = 0
    for key, value in dict.items():
        if (key == pattern[ptrlen]):
            ptrlen = ptrlen + 1

        if (ptrlen == (len(pattern))):
            return 'true'

return 'false'

if __name__ == "__main__":
        input = 'engineers rock'
        pattern = 'er'
        print (checkOrder(input, pattern))

true

8. Dictionary and counter in Python to find winner of election
```

7. Python | Check order of character in string using OrderedDict()

```
votes = Counter(input)
   dict = {}
   for value in votes.values():
       dict[value] = []
   for (key, value) in votes.items():
       dict[value].append(key)
   maxVote = sorted(dict.keys(), reverse=True)[0]
   if len(dict[maxVote])>1:
      print (sorted(dict[maxVote])[0])
      print (dict[maxVote][0])
if __name__ == "__main__":
   'john', 'johnny', 'jamie', 'johnny',
          'john']
   winner(input)
john
9. Python – Append Dictionary Keys and Values (In order) in
dictionary.
```

print("The original dictionary is : " + str(test_dict)) res = list(test_dict.keys()) + list(test_dict.values()) print("The ordered keys and values : " + str(res))

```
10. Python | Sort Python Dictionaries by Key or Value
In [12]: def dictionairy():
         key_value ={}
          key_value[2] = 56
          key_value[1] = 2
          key_value[5] = 12
          key_value[4] = 24
          key_value[6] = 18
          key_value[3] = 323
          print ("Task 1:-\n")
         print ("Keys are")
         for i in sorted (key_value.keys()) :
             print(i, end = " ")
         def main():
            dictionairy()
         if __name__=="__main__":
            main()
        Task 1:-
        Keys are
        1 2 3 4 5 6
In [ ]:
```