In [49]:

```
#1)Write a Python program to check if a specific Key and a value exist in a dictionary.
dic={1:'A',2:'B',3:'C',4:'D'}
key=int(input("Enter the key : "))
value=input("Enter the value ")
if (key,value) in dic.items():
    print(key,value)
else:
    print("Given key and value is does't not exist")
```

```
Enter the key : 4
Enter the value D
4 D
```

In [12]:

```
#2)Write a Python program to get the total length of all values of a given dictionary wit
count=0
di={1:'A',2:'B',3:'C',4:'D',5:"E"}
for i in di.values():
    count+=len(i)
print(count)
```

```
5
```

In [48]:

```
#3)Write a Python program to create a key-value list pairing in a given dictionary.
d={1:[1,3,4,5],2:[5,46,77,8],3:[23,44,55,66],4:[234,55,66,77]}
key_value=[]
for (key,value) in d.items():
    key_value.append(key)
    key_value.append(value)
print(key_value)
```

```
[1, [1, 3, 4, 5], 2, [5, 46, 77, 8], 3, [23, 44, 55, 66], 4, [234, 55, 66,
77]]
```

In [41]:

```
#4)Write a Python program to convert a given list of lists to a dictionary.
li=[1,2,3,4,5,6,7]
li1=['A','B','C','D','E','F','G']
d1=zip(li,li1)
convert=dict(d1)
convert
```

Out[41]:

```
{1: 'A', 2: 'B', 3: 'C', 4: 'D', 5: 'E', 6: 'F', 7: 'G'}
```

In [71]:

```
#5)Write a Python program to extract values from a given dictionaries and create a list o
extract={'A':[1,2,3,4],'B':[3,3,4,5,6],'C':[55,77,88,99]}
lis=list(extract.values())
lis
```

Out[71]:

```
[[1, 2, 3, 4], [3, 3, 4, 5, 6], [55, 77, 88, 99]]
```

In [54]:

```
#6)Write a Python program to count the frequency in a given dictionary.
count={'a':1,'b':2,'b':2,'c':3,'d':4,'E':5}
feq={}
for value in count.items():
    if value not in feq:
        feq[value]=1
    else:
        feq[value]+=1
for key,value in feq.items():
    print(key,value)
```

```
('a', 1) 1
('b', 2) 1
('c', 3) 1
('d', 4) 1
('E', 5) 1
```

In [120]:

```
#7)Write a Python program to find the specified number of maximum values in a given dicti
car = {'Audi':100, 'BMW':1292, 'Jaguar': 210000, 'Hyundai' : 88,'Farreri':210000}
li=list(car.keys())
lie=list(car.values())
print(max(li))
print(max(lie))
```

```
Jaguar
210000
```

In [66]:

```
#8)Write a Python program to get all combinations of key-value pairs in a given dictionar
d2={'AA':'Puspha','RC':'RRR','NTR':'RRR','Rishab':'Kantara'}
d2
combin=[]
for combination in d2.items():
    combin.append(combination)
print(combin)
```

```
[('AA', 'Puspha'), ('RC', 'RRR'), ('NTR', 'RRR'), ('Rishab', 'Kantara')]
```

In [77]:

```
#9)Write a Python program to filter even numbers from a given dictionary values.
even={'A':[1,2,3,4,5,6],'B':[2,3,4,56,77,84]}
e=[]
for value in even.values():
    for i in value:
        if i%2==0:
            e.append(i)
print(e)
```

```
[2, 4, 6, 2, 4, 56, 84]
```

In [86]:

```
#10)Write a Python Dictionary contains List as value. Write a Python program to update th
lie1=[40,50,75,80]
lie2=['Maths','Python','DSA','JAVA']
le=zip(lie2,lie1)
mark=dict(le)

#UPDATE list
le4=[46,45]
le5=['C','C++']
mark['other']=[le5,le4]
print(mark)
```

```
{'Maths': 40, 'Python': 50, 'DSA': 75, 'JAVA': 80, 'other': [['C', 'C++'],
[46, 45]]}
```

In [92]:

```
#11)Write a Python Dictionary contains List as value. Write a Python program to clear the
lie1=[40,50,75,80]
lie2=['Maths','Python','DSA','JAVA']
le=zip(lie2,lie1)
mark=dict(le)

#UPDATE list
le4=[46,45]
le5=['C','C++']
mark['other']=[le5,le4]
list2=list(mark.values())
list2
```

Out[92]:

```
[40, 50, 75, 80, [['C', 'C++'], [46, 45]]]
```

In [109]:

```
#12)Write a Python program to convert string values of a given dictionary, into integer/f
car = {'Audi':'100', 'BMW':'1292', 'Jaguar': '210000', 'Hyundai' : '88'}
for value in car.values():
    convert=float(value)
    print(convert)
```

```
100.0
1292.0
210000.0
88.0
```

In [108]:

```
#13)Write a Python program to remove a specified dictionary from a given list.
car = {'Audi':100, 'BMW':1292, 'Jaguar': 210000, 'Hyundai' : 88}
my_di=[]
for key in car.keys():
    my_di.append(key)
#print(my_di)
my_di.pop()
print(my_di)
```

```
['Audi', 'BMW', 'Jaguar']
```

In [116]:

```
#14)Write a Python program to split a given dictionary of lists into list of dictionaries

my_dict = {'name': ['Alice', 'Bob', 'Charlie'],
           'age': [25, 30, 35],
           'gender': ['F', 'M', 'M']}


print("Original Dictionary:")
print(my_dict)


def split_dict_of_lists(dict_obj):
    # Get the keys and values from the dictionary
    keys = list(dict_obj.keys())
    values = list(dict_obj.values())


    length = len(values[0])


    list_of_dicts = []
    for i in range(length):

        temp_dict = {}
        for j in range(len(keys)):
            temp_dict[keys[j]] = values[j][i]

        list_of_dicts.append(temp_dict)

    return list_of_dicts


list_of_dicts = split_dict_of_lists(my_dict)


print("\nList of Dictionaries:")
for dictionary in list_of_dicts:
    print(dictionary)
```

```
Original Dictionary:
{'name': ['Alice', 'Bob', 'Charlie'], 'age': [25, 30, 35], 'gender': ['F',
'M', 'M']}

List of Dictionaries:
{'name': 'Alice', 'age': 25, 'gender': 'F'}
{'name': 'Bob', 'age': 30, 'gender': 'M'}
{'name': 'Charlie', 'age': 35, 'gender': 'M'}
```

In [115]:

```
#15)Write a Python program to create a dictionary grouping a sequence of key-value pairs

my_list = [('name', 'Alice'), ('age', 25), ('gender', 'F'),
           ('name', 'Bob'), ('age', 30), ('gender', 'M'),
           ('name', 'Charlie'), ('age', 35), ('gender', 'M')]


print("Original List:")
print(my_list)


def group_to_dict_of_lists(list_obj):
    # Create an empty dictionary
    dict_of_lists = {}


    for key, value in list_obj:
        # If the key is not in the dictionary, add it with an empty list as the value
        if key not in dict_of_lists:
            dict_of_lists[key] = []


        dict_of_lists[key].append(value)

    return dict_of_lists


dict_of_lists = group_to_dict_of_lists(my_list)


print("\nDictionary of Lists:")
print(dict_of_lists)
```

```
Original List:
[('name', 'Alice'), ('age', 25), ('gender', 'F'), ('name', 'Bob'), ('age',
30), ('gender', 'M'), ('name', 'Charlie'), ('age', 35), ('gender', 'M')]

Dictionary of Lists:
{'name': ['Alice', 'Bob', 'Charlie'], 'age': [25, 30, 35], 'gender': ['F',
'M', 'M']}
```

In [ ]: