1. Write a Python program to Extract Unique values dictionary values?
2. Write a Python program to find the sum of all items in a dictionary?
3. Write a Python program to Merging two Dictionaries?
4. Write a Python program to convert key-values list to flat dictionary?
5. Write a Python program to insertion at the beginning in OrderedDict?
6. Write a Python program to check order of character in string using OrderedDict()?
7. Write a Python program to sort Python Dictionaries by Key or Value?

Solution-:

**1.Write a Python program to Extract Unique values dictionary values?**

In [1]:

in\_dict **=** {1:'Rishikesh',2:'Badrinath',3:'Gangotri',4:'Yamunotri',5:'Kedarnath',6:'Tirupati',7:'Kedarnath'}

print(in\_dict**.**values())

print(f'Unique Values: {list(set(in\_dict**.**values()))}')

dict\_values(['Rishikesh', 'Badrinath', 'Gangotri', 'Yamunotri', 'Kedarnath', 'Tirupati', 'Kedarnath'])

Unique Values: ['Badrinath', 'Gangotri', 'Kedarnath', 'Tirupati', 'Rishikesh', 'Yamunotri']

**2.Write a Python program to find the sum of all items in a dictionary?**

In [2]:

in\_dict **=** {'Apple':10,'Mango':20,'Banana':30,'Guava':40,'PineApple':200}

print('Sum of All items: ',sum(in\_dict**.**values()))

Sum of All items: 300

**3.Write a Python program to Merging two Dictionaries?**

In [3]:

course\_details **=** {

'cousre\_name':'Ineuron'

}

instructors **=** {

'course\_instructors':['Sudhanshu Kumar','Krish Naik']

}

course\_details**.**update(instructors)

print(course\_details)

{'cousre\_name': 'Ineuron', 'course\_instructors': ['Sudhanshu Kumar', 'Krish Naik']}

**4.Write a Python program to convert key-values list to flat dictionary?**

In [4]:

in\_list **=** [('A',10),('B',20),('C',30),('D',40),('E',50),('F',60),('G',70),('H',80),('I',90),('J',100)]

*# Method #1*

dict(in\_list)

*# Method #2*

out\_dict **=** {}

**for** ele **in** in\_list:

out\_dict[ele[0]] **=** ele[1]

print(out\_dict)

{'A': 10, 'B': 20, 'C': 30, 'D': 40, 'E': 50, 'F': 60, 'G': 70, 'H': 80, 'I': 90, 'J': 100}

**5.Write a Python program to insertion at the beginning in OrderedDict?**

In [5]:

**from** collections **import** OrderedDict

dict\_one **=** OrderedDict({'Apple':'Iphone','Microsoft':'Windows','Google':'chrome'})

print('dict\_one',dict\_one)

dict\_two **=** {'Tesla':'SpaceX'}

dict\_one**.**update(dict\_two)

print('dict\_one',dict\_one)

dict\_one**.**move\_to\_end('Tesla',last**=False**)

print('dict\_one',dict\_one)

dict\_one OrderedDict([('Apple', 'Iphone'), ('Microsoft', 'Windows'), ('Google', 'chrome')])

dict\_one OrderedDict([('Apple', 'Iphone'), ('Microsoft', 'Windows'), ('Google', 'chrome'), ('Tesla', 'SpaceX')])

dict\_one OrderedDict([('Tesla', 'SpaceX'), ('Apple', 'Iphone'), ('Microsoft', 'Windows'), ('Google', 'chrome')])

**6.Write a Python program to check order of character in string using OrderedDict()?**

In [6]:

**from** collections **import** OrderedDict

initial\_list **=** {'a': 1000, 'f': 200, 'd': 300, 'c': 400, 'b': 500, 'e': 600}

print(initial\_list)

final\_list **=** OrderedDict(dict(sorted(initial\_list**.**items())))

print(final\_list)

{'a': 1000, 'f': 200, 'd': 300, 'c': 400, 'b': 500, 'e': 600}

OrderedDict([('a', 1000), ('b', 500), ('c', 400), ('d', 300), ('e', 600), ('f', 200)])

**7.Write a Python program to sort Python Dictionaries by Key or Value?**

In [7]:

d\_items **=** {'Mango':100,'PineApple':22,'Banana':60,'Grape':13}

**def** sort\_dict(in\_dict,sort\_type):

**if** sort\_type **==** 'key':

print(dict(sorted(in\_dict**.**items(), key**=lambda** x:x[0], reverse**=False**)))

**else**:

print(dict(sorted(in\_dict**.**items(), key**=lambda** x:x[1], reverse**=False**)))

sort\_dict(d\_items,'key')

sort\_dict(d\_items,'value')

{'Banana': 60, 'Grape': 13, 'Mango': 100, 'PineApple': 22}

{'Grape': 13, 'PineApple': 22, 'Banana': 60, 'Mango': 100}