## **Programming Assingment 12**

- 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?

Value with num1 key is: 34
Value with num2 key is: 78
Value with num3 key is: 98
Value with num4 key is: 76
sum of all items in a dictionary: 286

Original dictionary: {'num': [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12], 'name': ['Ja

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n', 'Feb', 'Mar', 'Apr', 'May', 'Jun', 'Jul', 'Aug', 'Sep', 'Oct', 'Nov', 'Dec']}
Flattened dictionary: {1: 'Jan', 2: 'Feb', 3: 'Mar', 4: 'Apr', 5: 'May', 6: 'Jun',
         7: 'Jul', 8: 'Aug', 9: 'Sep', 10: 'Oct', 11: 'Nov', 12: 'Dec'}
        #5. Write a Python program to insertion at the beginning in OrderedDict?
         test_dict = {'d' : [1, 2, 5,9,13], 'a' : [5, 6, 7, 8,12,4,5,3,7,],
                        'b' : [10, 11, 7, 5],
                        'c' : [6, 12, 10,7, 8],
         from collections import OrderedDict
         od=OrderedDict()
         od.update(test_dict)
         od.update({'e':[1,3]})
         od.move_to_end('e',last=False)
Out[5]: OrderedDict([('e', [1, 3]),
                       ('d', [1, 2, 5, 9, 13]),
                       ('a', [5, 6, 7, 8, 12, 4, 5, 3, 7]),
                       ('b', [10, 11, 7, 5]),
                      ('c', [6, 12, 10, 7, 8])])
In [6]:
         #6. Write a Python program to check order of character in string using OrderedDict()
         from collections import OrderedDict
         string='ASDFASDF weaAsdfew asdf43m1'
         odstring= dict(OrderedDict.fromkeys(string))
         charstring='1amf'
         order=OrderedDict()
         part=0
         for i in range(len(string)):
              for j in range(len(charstring)):
                  if (charstring[j] ==string[i] ):
                      order[charstring[j]]= i
                      part+=1
         if part >= 1:
              print('The pattern is present in the string ')
              print('the Order of the charaters and their postion in the string is: ')
              for key, value in order.items():
                  print(key, '-->', value)
         else:
              print('The pattern is not present in the string')
         The pattern is present in the string
         the Order of the charaters and their postion in the string is:
         a --> 19
         f --> 22
        m --> 25
         1 --> 26
In [7]:
        #7. Write a Python program to sort Python Dictionaries by Key or Value?
         from collections import OrderedDict
In [8]:
         sort_key={'Z':43,'G':34,'E':98,'1':897,"9":90}
         sorted_dict=OrderedDict(sorted(sort_key.items()))
         print('Sorted Dictionary items: ', sorted_dict.items())
         Sorted Dictionary items: odict_items([('9', 90), ('E', 98), ('G', 34), ('Z', 43),
         ('1', 897)])
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