Programming_Assingment12

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

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In [2]:
test dict = {'a' : [1, 62, 7, 8],
       'b': [1, 11, 7, 5],
       'c': [1, 11, 10, 8],
       'd': [1, 2,11,8]}
lstSet = set([ele for val in test dict.values() for ele in val])
print("unique value from dictionry values are : {}".format(lstSet))
unique value from dictionry values are: {1, 2, 5, 7, 8, 10, 11, 62}
2. Write a Python program to find the sum of all items in a dictionary?
                                                                                                  In [4]:
test_dict = {'a' : 10,
       'b': 11,
       'c': 13,
       'd': 65}
sum = 0
for i in test dict.values():
  sum +=sum + i
print("Sun of all items is : {}".format(sum))
Sun of all items is: 215
3. Write a Python program to Merging two Dictionaries?
                                                                                                  In [6]:
a = { 'x': 31, 'y': 23}
b = { 'y': 33, 'z': 43}
c = a.copy()
c.update(b)
print("dict a : ", a)
print("Dict b : ", b)
print('updated dictionary : {}'.format(c))
dict a: {'x': 31, 'y': 23}
Dict b: {'y': 33, 'z': 43}
updated dictionary : {'x': 31, 'y': 33, 'z': 43}
```

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

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In [9]:
test dict = {'month' : [1, 2, 3],
       'name' : ['Jan', 'Feb', 'March']}
# printing original dictionary
print("The original dictionary is : " + str(test dict))
# Convert key-values list to flat dictionary
# Using dict() + zip()
res = dict(zip(test_dict['month'], test_dict['name']))
# printing result
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'}
5. Write a Python program to insertion at the beginning in OrderedDict?
                                                                                             In [10]:
# insertion of items in beginning of ordered dict
from collections import OrderedDict
# initialising ordered_dict
iniordered_dict = OrderedDict([('Feb', '2'), ('Mar', '3')])
# inserting items in starting of dict
iniordered dict.update({'Jan':'1'})
iniordered_dict.move_to_end('Jan', last = False)
# print result
print ("Ordered Dictionary after insertion : "+str(iniordered dict))
Ordered Dictionary after insertion: OrderedDict([('Jan', '1'), ('Feb', '2'), ('Mar', '3')])
6. Write a Python program to check order of character in string using OrderedDict()?
                                                                                             In [11]:
from collections import OrderedDict
def checkOrderofString(str, pattern):
  # create empty OrderedDict
```

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dict = OrderedDict.fromkeys(str)
  print(dict)
  ptrlen = 0
  for key, value in dict.items():
    if (key == pattern[ptrlen]):
       ptrlen = ptrlen + 1
    # check if we have traverse complete pattern string
    if (ptrlen == (len(pattern))):
       return 'true'
  # if we come out from for loop that means order was mismatched
  return 'false'
string = input("enter string : ")
pattern = input("Enter Pattern : ")
if checkOrderofString(string,pattern):
  print("Pattern matched")
else:
  print("Pattern not matched")
enter string: akash
Enter Pattern: a
OrderedDict([('a', None), ('k', None), ('s', None), ('h', None)])
Pattern matched
7. Write a Python program to sort Python Dictionaries by Key or Value?
                                                                                               In [12]:
a = \{1:2, 2:1, 4:3, 3:4, 6:5, 5:6\}
#this will print a sorted list of the keys
print(sorted(a.keys()))
#this will print the sorted list with items.
print(sorted(a.items()))
[1, 2, 3, 4, 5, 6]
[(1, 2), (2, 1), (3, 4), (4, 3), (5, 6), (6, 5)]
                                                                                               In [13]:
a = \{1:2, 2:1, 4:3, 3:4, 6:5, 5:6\}
print(sorted(a.values()))
#this will print a sorted list of values.
[1, 2, 3, 4, 5, 6]
```