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

from ast import literal\_eval #imported to take dictionary input from user as literal

def uniq\_vals(Dict):

Vals = list(Dict.values()) #list of values in dictionary

uniq = set() #set to store unique values

for x in Vals:

if not x in uniq: #if no match, means unique

uniq.add(x)

return list(uniq)

D1 = input('enter the dictionary')

D2 = literal\_eval(D1)

print(uniq\_vals(D2))

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

from functools import reduce #to add items of the list

from ast import literal\_eval #to fetch literal from user input

def sum\_items(Dict):

list\_k = list(Dict.keys()) #list of keys and values

list\_v = list(Dict.values())

list\_kv= list\_k+list\_v #concatenating both lists

Sum = reduce(lambda x,y:x+y, list\_kv) #running reduce for summation of all items

return Sum

D1 = input('enter the dictionary')

D2 = literal\_eval(D1)

print(sum\_items(D2))

1. Write a Python program to Merging two Dictionaries?

def Merge(dict1, dict2):

res = {\*\*dict1, \*\*dict2}

return res

dict1 = {'gfg' : [5, 6, 7, 8], 'is' : [10, 11, 7, 5]}

dict2 = {'best' : [6, 12, 10, 8], 'for' : [1, 2, 5]}

dict3 = Merge(dict1, dict2)

print(dict3)

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

dict1 = {'name': ('jan','feb','mar'), 'num':(1,2,3)}

print (dict(zip(dict1['name'],dict1['num']))) #using zip function to combine values

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

from collections import OrderedDict

od = OrderedDict([('a', '1'), ('b', '2')])

od.update({'c':'3'})

od.move\_to\_end('c', last = False)

print (od)

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

from collections import OrderedDict

s1 = 'January seventeenth'

p1 = 'jrt'

def check\_order(pattern,string):

od = OrderedDict.fromkeys(string)

count = 0

l = len(pattern)

for k,v in od.items():

if k.lower()==pattern[count].lower(): #to match if different case

count+=1

if count==l:

return True

return False

print(check\_order(p1,s1))

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

from ast import literal\_eval #to be able to take dictionary input

def sorting(k,d):

if k==1:

return dict(sorted(d.items())) #by default sort key is first value of tuple

else:

return dict(sorted(d.items(),key=lambda x:x[1])) #changing sort key using lambda

d1 = literal\_eval(input('enter the dictionary '))

k1 = int(input('press 1 for sorting by keys, 2 for sorting by values '))

print(sorting(k1,d1))