**BASIC PROGRAMMING ASSIGNMENT\_12-SUBMITTED BY SAMUEL DEVDAS**

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

Ans. dict1={}

dictlength=int(input('Enter the length of the dictionary you want to create:'))

for i in range(dictlength):

k=input('\n''Enter the key:')

v=input('Enter the value:')

dict1.update({k:v})

print('\n''The dictionary entered is:''\n',dict1)

dict1v=dict1.values()

listdict1v=list(dict1v)

print('\n''The unique values are:''\n')

for value in listdict1v:

if listdict1v.count(value)<2:

print(value)

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

Ans. dict1={}

dictlength=int(input('Enter the length of the dictionary you want to create:'))

for i in range(dictlength):

k=input('\n''Enter the key:')

v=input('Enter the value:')

dict1.update({k:v})

print('\n''The dictionary entered is:''\n',dict1)

listofitems=[]

for i in list(dict1.items()):

for j in i:

listofitems.append(int(j))

sumofitems=sum(listofitems)

print('\n''The sum of all items in the dictionary is:''\n',sumofitems)

3.Write a Python program to Merging two Dictionaries?

Ans. dict1={}

dictlength=int(input('Enter the length of the dictionary1 you want to create:'))

for i in range(dictlength):

k=input('\n''Enter the key:')

v=input('Enter the value:')

dict1.update({k:v})

print('\n''The dictionary1 entered is:''\n',dict1)

dict2={}

dictlength2=int(input('Enter the length of the dictionary2 you want to create:''\n'))

for i in range(dictlength2):

k=input('\n''Enter the key:')

v=input('Enter the value:')

dict2.update({k:v})

print('\n''The dictionary2 entered is:''\n',dict2)

for i,j in dict2.items():

dict1.update({i:j})

print('\n''Dictionary1 merged with Dictionary2 is:''\n',dict1)

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

Ans. from itertools import product

key\_valueslist={'date':[1,2,3,4,5,6,7],'day':['mon','tue','wed','thu','fri','sat','sun']}

print('\n''Key-values list:''\n',key\_valueslist)

dict1=zip(key\_valueslist['date'],key\_valueslist['day'])

print('\n''Key-values list converted to Flat dictionary:''\n',dict(dict1))

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

Ans. from collections import OrderedDict

od = OrderedDict()

od['a'] = 1

od['b'] = 2

od['c'] = 3

od['d'] = 4

print('Ordered Dictionary:\n',od)

od['e']=5

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

print('\nInsertion at beginning of the Ordered Dictionary:\n',od)

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

Ans. from collections import OrderedDict

string=input('Enter any string(Note:space counts as character):')

o=str(input('\nEnter the character for which you need the order:'))

orderedstring=OrderedDict()

for i in range(len(string)):

orderedstring[string[i]]=i

print('\n',orderedstring)

def getorder(char):

order=orderedstring.get(str(char))

return order

print('\nThe order of the character in the string is:\n',getorder(o))

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

Ans. od ={}

od['a'] = 1

od['c'] = 3

od['d'] = 4

od['b'] = 2

sort=sorted(od.items())

dict1={}

for i in sort:

for j in i:

dict1.update(sort)

print(dict1)