Key -7 " Mango" 120,

1 Apple 180

Lype (fruits) Value

dict

```
fruits.
["Bonana": 60, "Mango": 120, "Apple": 80]
# Zip (Kay, value)
name = ["orange", "Pine Apple", "chiny"]
 pries = [120,100,130]
 fruit 1 = dict ( = ip ( name, prices))
 { 'Orange! : 120, 'Pine Apple': 100, 'curry': 130]
 len (fruit!)
  Accessing elements in Dictionary
      - Dictionaries down't support indexing
[ "Barana": 60, 'Mango': 120, 'Apple': 80].
 fruits [0]
 Key Error : 0
 fruits ["Apple"]
                          Method 1
  fruits [ "Mango"]
  fruits [ "huava "].
   Key Error: 'Guava'
  fruits . get ("Apple")
                                            Method 2
                                           Using get () method.
  fruits. get ("Guave")
                                           This avoids Key Error
                                           while trying to accum
   fruits get ("Guava", "Not Available")
                                           element which is
   · Not available
                                           not available in
```

dictionary.

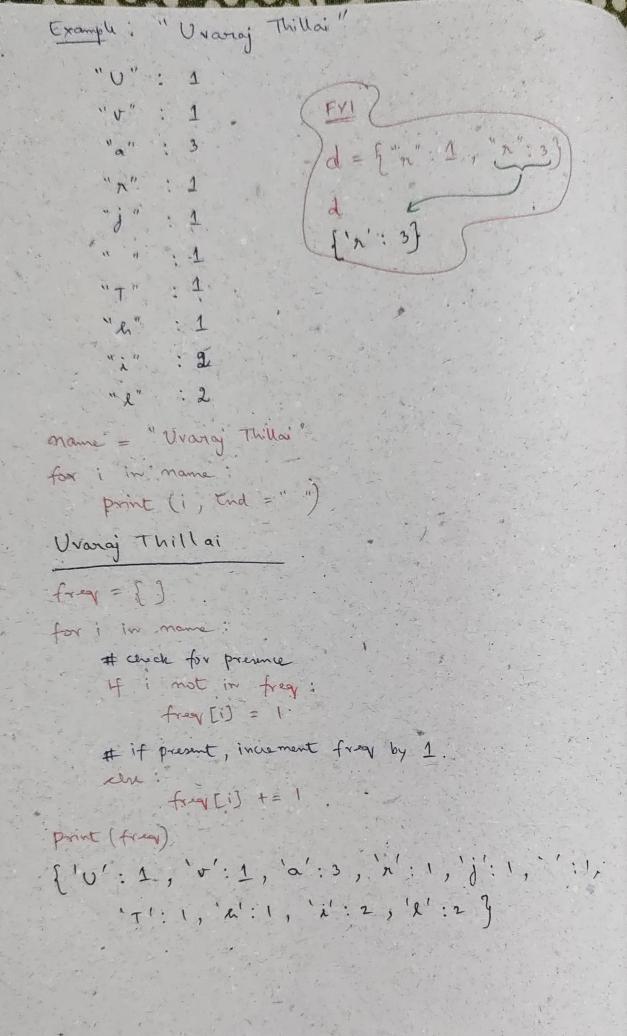
Updating a dictionary { 'Apple': 120, 'Mango': 100, 'Pine Apple': 90} fruits ["proapple"] updating the existing value fruit [" Pine Apple"] = { "small": 10 " Large": 120 } fruits ['Apple': 120, Mango': 100, PineApple': [Small: 90, Large': 120]] fruits ["Guava"] Updating with now value Key Error: 'Guava' fruits ["Guava "] = 80 fruits ['Apple': 120, ' Mango': 100, ' Pine Apple': { 'Small': 90, Large': 120} 1 Guava : 80 3 seasonal Fruits = { "trapes": 120, "Oranger": 70, "Berry": 140} fruits update (seas anal Fruits) Update with another dictionary { 'Apple': 120, 1 Mango': 100 , . 1 Pine Apple : { 'Small : 90, 'Large : 120} ' Guava': 80, 'Graper': 120, ' oranges : 70, 1 Bory : 140 }

```
Deletion operations in Dictionary
fruits = [
    " Apple ": 120,
    " Mango": 100,
    " Pine Apple": 90
# Citizenship chuch
fruits
 { 'Apple': 120, 'Margo': 100, 'PineApple': 90]
 " Apple" in fruits
 True
 " Berry " in fruits
 Falu
It dict . pap ( key)
 fruit . pop ("Apple")
 120
 fruits
 [ 'Mango':100, Pine Apple': 90]
 fruits. pop()
 Type Error: pop expected at least 1 argument, got 0
 # dict. popitem ()
  { 'Apple': 120, 'Mango': 100, 'Pine Apple': 90]
  fruits . popition ()
  ('Pine Apple!: 90)
                                      fruits .popitem ()
  fruits
                                      ('Appu': 120)
  { 'Apple ': 120, Mango': 100}
                                      fruits
  fruits . popitem ()
  ('Mango': 100)
                                      fruits popitem ()
   fruits
                                      Key Error: 'popitem (1: dictionary
   1'Apple : 1203
                                                    is empty "
```

```
Delete object
fruits
{ 'Apple!: 120, Mango': 100, Pine Apple!: 90}
del fruits
fruits
Name Error: name 'fruits' is not defined
Iteration in Dictionary
fruits =
     "Apple": 120,
     " Mango": 100,
     " Pine Apple": 90,
     " Grapes": 120
 for i in fruits:
   . Print (i)
  Apple
  Mango
  Pine Apple
 (fruits [ "Apple")
  for i in fruits:
     print (fruits [i])
   120
   100
   90
   120
  for i in fruits .
       Print (i, fruits [1])
  Apple 120
   Wando 100
   Pine Apple 90
   Grapes 120
```

```
# Using dict . items ()
for key, value in fruits items ()
     print ( key, Value)
 Apple 120
 Mango 100
 Pine Apple 90
 (4, obr 150
 fruits. item; ()
 dict-items ( [ ('Apply 120), ('mango', 100),
       ('Pine Apple', 90), ('Croaper', 120) ])
 More Dictionary methods
# Keys, Values, items
fruits = [
   " Apple ": 120 ,
   " Mango": 100,
   " Pine Apple": 90
fruits. Reys ()
dict - Rays (['Apple', Mango', Pine Apple'])
fruits. Values ()
dict - values ([120, 100; 90])
fruits . it en ()
dict_items ([ ('Apple': 120), ('Mango': 100), ('PineApple': 90)])
Challenges
```

1) Take an input and find the frequency of each letter and return the letter and their frequency.



1 What is the output of the following code? diet 1 = { 'age' : 35, 'name' : 'abc', 'nalony': 45000} Val = dict1 [age] if. Val in dict 1: print ("This is a member of the dictionary") Print (" This is not a member of the dictionary") This is not a member of ou dictionary 3 comider the following dictionary f resters = $\{$ student 1 : { name ! Yash , ralary !: 7500], 'student 2': ['name': heet', 'nalary': 8000], student 3': ['name!: smit', 'salary': 6500] Which of the following is the correct way of changing the 'salary' of 'smit' to 8500 ? a) freshers ['smit'] ['salary!] = 8500 b) freshers ['student 3'] ['name' = = 'smit'] ['salary'] = 8500 c) freshers ['student'3'] ['s alary'] = 8500 V d) freshers ['student 3'] ['salary' == 6500] = 8500 (4) What is the output of the following Python code mippet bbt = { 'Sheldon': 1, 'Leonard': 2] bbt. update ({ Penny!:2]) Print (bbt) ["sheldon": 1, "Leonard": 2, "Penny": 2]

(5) Sum of values.

Criver a dictionary, find the sum of values of every key in the dictionary.

Input Format:

The input contains two lines: The first line has space. separated string values which are the keep of the dictionary. The second line has space-separated "integer numbers which are the value of the dictionary.

output Format

Print the Sum of the values of the items as an integer

Sample I rout

x y 2

25 25 50

Sample output:

100

def return Sum (d):

calculate the Sum of Values in the dictionary total - sum = sum (d. values (1))

Ruys = ["x", "y", "2"] Values = [25, 25, 50]

Create dictionary from hey and values dictionary = dict (2ip (seys, values))

Print (dictionary)

Output the Sum of Values
Print (return Sum (dictionary))

['n':25, 'y':25; 2':50]

6 Adding common Keys

Criven two dictionaries, WAP for Creating a dictionary in such a way that it consists of all the keys that are common in both dictionaries. The values corresponding to the keys in this new dictionary are the sum of the values of those keys in the two dictionaries.

Input format:

The input contains four lines. The first line is space separated string values which are the keys of the first dictionary. The sword line is space separated integer numbers which are the values of the first dictionary. The third line is space separated string values which are the keys of the second dictionary. The fourth line is space separated integer numbers which are the values of the second dictionary. Output format:

Print the resultant dictionary containing added values for common keys.

det commonkey (dict 1, dict 2)

dict 3 = []

Find Common Keys and sum their values for skey in dict!

if key in dict 2: dict 3 [key] = dict [key] + dict 2 [key]

print (dict 3)

Input Handling

Reys 1 = ['a' | b' , 'c']

Values 1 = ['1, 2, 3]

Ruys 2 = ['c', 'd', 'e']

Values 2 = [4,5,6]

Create dictionaries from input

dict = dict (2/p (Reys 1, Values 1))

dict = dict (2/p (Reys 2, Values 2))

It call the function with the two dictionaries commonkey (dict 1, dict 2)

output { 'c':7 }