***Day 8 task***

***Write a Python script to merge two Python dictionaries***

d1 = {'L': 100, 'M': 200}

d2 = {'N': 300, 'P': 200}

d = d1.copy()

d.update(d2)

print(d)

***Output:-***

{'N': 300, 'p': 200, 'L': 100, 'M': 200}

***Write a program to sort the value from descending to ascending in list and***

***convert it in to a set.***

list1=[2,3,4,5,6,7,1,2,3,43,12,14]

list1.sort() *#sort list in ascending order*

print(list1

.

***Output:-***

[1, 2, 2, 3, 3, 4, 5, 6, 7, 12, 14, 43]

list1.sort(reverse=**True**)

print(list1)

***Output:-***

[43, 14, 12, 7, 6, 5, 4, 3, 3, 2, 2, 1]

### ***3) Write a Python program to list number of items in a dictionary key and sort the list with the help of a function & without the function.***

dict1={'Suresh':[12,13,21,16],'Ramesh':[12,67,54,43],'jayesh':[34,87,88,98],'Paresh':[33,66,55,44]}

result={k:sorted(dict1[k]) **for** k **in** sorted(dict1)}

print(result)

***Output:-***

{'Paresh': [33, 44, 55, 66], 'Ramesh': [12, 43, 54, 67], 'Suresh': [12, 13, 16, 21], 'jayesh': [34, 87, 88, 98]}

**def** function1(dict1):

res = dict()

**for** key **in** sorted(dict1):

res[key] = sorted(dict1[key])

**return** res

***Output:-***

{'Paresh': [33, 44, 55, 66],

'Ramesh': [12, 13, 16, 21],

'Suresh': [12, 43, 54, 67],

'Jayesh': [34, 87, 88, 98]}

### ***4)Write a Python program to get a string from a given string (user input) and change the first occurrence of the word to a user specified input.***

**def** fun():

user=input("Enter the string :")

word="String is given by user "

**return** user+word[6:]

fun()

Enter the string :Hello

***Output:-***

'Hello is given by user '

### ***5)Write a Python program to get a string from a given string where all occurrences of its first char have been changed to capital letter.***

**def** fun3():

user=input("Enter the string :")

**return** user.capitalize()

fun3()

Enter the string :mayur

***Output:-***

'Mayur '

### ***6) Write a Python program to find the repeated items of a list***

l1 = [1,2,1,2,3,4,5,1,1,2,5,6,7,8,9,9]

d = Counter(l1)

print(d)

new\_list = list([item **for** item **in** d **if** d[item]>1])

print(new\_list)

***Output:-***

Counter({1: 4, 2: 3, 5: 2, 9: 2, 3: 1, 4: 1, 6: 1, 7: 1, 8: 1})

[1, 2, 5, 9]

**def** Repeat(x):

\_size = len(x)

repeated = []

**for** i **in** range(\_size):

k = i + 1

**for** j **in** range(k, \_size):

**if** x[i] == x[j] **and** x[i] **not** **in** repeated:

repeated.append(x[i])

**return** repeated

list1 = [10, 20, 30, 20, 20, 30, 40,

50, -20, 60, 60, -20, -20]

print (Repeat(list1))

***Output:-***

[20, 30, -20, 60]

### ***7) Write a Python program to check the sum of three elements and divided by a value which is given as an input by the user***

a=int(input("Enter number :"))

b=int(input("Enter number :"))

c=int(input("Enter number :"))

sum1=a+b+c

print(sum1)

user=int(input("Enter the number to divide sum!"))

**if** sum1% user==0:

print("The given input divide")

**else** :

print("The given input does not divide sum1")

***Output:-***

Enter number :2

Enter number :3

Enter number :4

9

Enter the number to divide sum!9

The given input divide

### ***8) Write a Python program to find the Mean,median,mode among three given numbers***

**def** MMM(n\_num):

n = len(n\_num)

get\_sum = sum(n\_num)

mean = get\_sum / n

print("Mean / Average is: " + str(mean))

n\_num.sort()

**if** n % 2 == 0:

median1 = n\_num[n//2]

median2 = n\_num[n//2 - 1]

median = (median1 + median2)/2

**else**:

median = n\_num[n//2]

print("Median is: " + str(median))

data = Counter(n\_num)

get\_mode = dict(data)

mode = [k **for** k, v **in** get\_mode.items() **if** v == max(list(data.values()))]

**if** len(mode) == n:

get\_mode = "No mode found"

**else**:

get\_mode = "Mode is / are: " + ', '.join(map(str, mode))

print(get\_mode)

l=[12,11,23,245,25,22,344,34,56]

MMM(l)

***Output:-***

Mean / Average is: 85.77777777777777

Median is: 25

No mode found

### ***9)Write a Python program to swap cases of a given string***

a="Mayur"

b="savani"

tep=a

a=b

b=tep

print(a,b)

***Output:-***

Savani Mayur

x = a

y = b

x, y = y, x

print(x,y)

Output:-

Mayur Savani

### ***10) Write a program to convert an integer to binary & octa decimal***

**def** decToOctal(n):

octalNum = [0] \* 100

i = 0

**while** (n != 0):

octalNum[i] = n % 8

n = int(n / 8)

i += 1

**for** j **in** range(i - 1, -1, -1):

print(octalNum[j], end="")

***Output:-***

n=3

decToOctal(n)

3