Python programming-CSA0814

DAY 10

(23 aug 24)

**1.GET A STRING AS INPUT AND PRINT THE NEXT ELEMENTS DISTANCE THAT IS EQUAL TO NUMBER OF FREQENCY**

str1 = 'google'

frequency\_dict = {}

for n in str1:

if n in frequency\_dict:

frequency\_dict[n] += 1

else:

frequency\_dict[n] = 1

print("Character Frequencies:", frequency\_dict)

result = ' '

for j in str1:

frequency = frequency\_dict[j]

new\_char = chr(ord(j) + frequency)

result += new\_char

print("Transformed String:", result)

**OUTPUT:**

Character Frequencies: {'g': 2, 'o': 2, 'l': 1, 'e': 1}

Transformed String: iqqimf

**2.GET A STRING AS INPUT AND INSERT IF VOWEL FOUND “^” SYMBOL OTHERWISE INSERT “@”**

a="welcome"

b="aeiouAEIOU"

for i in a:

if i in b:

print(i+"^",end=" ")

else:

print(i+"@",end=" ")

**OUTPUT:**

Character Frequencies: {'g': 2, 'o': 2, 'l': 1, 'e': 1}

Transformed String: iqqimf

**3.FIND AVERAGE NUMBER OF STUDENTS PRESENT INSIDE THE LIBRARY IN GIVEN TIME**

e=[10,20,30,40,50]

l=[5,10,20,30,10]

p=0

for i in range(len(e)):

p+=e[i]-l[i]

print(p)

**OUTPUT:**

75

**4.python program to find number of weekdays in given month and year and find the date of first monday**

import calander

y=2024

m=8

ndays=calander.month(range(y,m)[1])

nwdays=calander.sum(i for day in range(1,ndays+1) if calander.weekday(y,m,day)<5)

for day in range(1,ndays+1):

if calander.weekday(y,m,day)==calander.monday:

firstmonday=day

break

print(nwdays)

print(firstmonday)

**5.TAKE TWO LIST AS INPUT AND REATE THIRD LIST AS FIRST ELEMENT OF FIRST LIST FOLLOWED BY FIRST ELEMENT OF SECONG LIST AND APPEND REMAINING ELEMENT IN LAST**

a=[10,20,30,40,50]

b=[5,10,20,30,10,20]

c=[]

for i in range(max(len(a),len(b))):

if i < len(a):

c.append(a[i])

if i < len(b):

c.append(b[i])

print(c)

**OUTPUT:**

[10, 5, 20, 10, 30, 20, 40, 30, 50, 10, 20]