#!/usr/bin/env python

# coding: utf-8

# In[41]:

def Count\_VowelsConsonants(s):

vsum=0

csum=0

vwls=['a','e','i','o','u','A','E','I','O','U']

for i in s:

if i in vwls:

vsum+=1

else:

csum+=1

return vsum, csum

s=input('Enter string:')

vowCount, conCount = Count\_VowelsConsonants(s)

print("No.of vowels=", vowCount)

print("No.of consonants=", conCount)

# In[ ]:

# In[ ]:

def Common\_ele():

a = []

b = []

n1 = int(input("Enter size of list a:"))

n2 = int(input('Enter size of list b'))

for i in range(n1):

inp = int(input())

a.append(inp)

for i in range(n2):

inp = int(input())

b.append(inp)

c = []

for i in a:

if i in b:

c.append(i)

return c

print("the common elements are:",Common\_ele())

# In[35]:

def mat\_transpose():

r = int(input('Enter number of rows'))

c = int(input('Enter number of columns'))

m = []

for i in range(r):

a = []

for j in range(c):

v = int(input())

a.append(v)

m.append(a)

print(m)

t = [[m[i][j] for i in range(r)]for j in range(c)]

for i in range(r):

for j in range(c):

if i != j:

t[i][j]=m[j][i]

return t

print("the trasnpose is:",mat\_transpose())

# In[ ]:

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