#RIGHT ANGLE TRIANGLE

def right(a):

for i in range (1,a+1):

for j in range(1,i+1):

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

print()

num=int(input("enter the number"))

print(right(num))

#CONCATINATION WITHOUT +

def concat(str1,str2):

c=" ".join([str1,str2])

return c

a=input("enter the string")

b=input("enter the string")

print(concat(a,b))

#COUNT VOWELS AND CONSONANTS

def vow(text):

count=0

p=0

j=0

for i in text:

if(i=="a" or i=="e" or i=="i" or i=="o" or i=="u"):

count+=1

elif(i=="A" or i=="E" or i=="I" or i=="O" or i=="U"):

count+=1

elif(i==" "):

j+=1

else:

p+=1

print("vowels= ",count)

print("consonants= ",p)

print("spaces= ",j)

a=input("enter the sentence")

print(vow(a))

#PASCAL TRIANGLE

n=6

for i in range(n):

print(" "\*(n-i),end=" ")

coef=1

for j in range(0,i+1):

print(coef,end=" ")

coef=coef\*(i-j)//(j+1)

print()

#LEFT ANGLED TRIANGLE

rows = 5

k = 2\*rows-2

for i in range(rows):

for j in range(k):

print(end=" ")

k = k-2

for j in range(i+1):

print("\*", end=" ")

print()

#REVERSE USING SLICING

a=input("enter the sentence")

b=a[::-1]

print(b)

#COUNT DUPLICATE NUMBERS IN LIST

a=[1,2,2,3,5,2,45,4,6,7,4,4,8,9]

b=[]

for i in a:

if i not in b:

b.append(i)

for i in b:

print(i,a.count(i))

#DUPLICATE ELEMENTS IN LIST

a=[1,2,3,4,6,8,9,2,3,8,6]

b=set(a)

print(b)

#FREQUENCY

list=["A","A","B","C","B","D","D","A","B"]

frequency={ }

for i in list:

if i in frequency:

frequency[i]+=1

else:

frequency[i]=1

print(frequency)

#CHECK EMAIL ID

def is\_valid\_email(email):

return "@" in email and "." in email

# Example usage

email = "example@domain.com"

if is\_valid\_email(email):

print(f"{email} is valid.")

else:

print(f"{email} is not valid.")