Python programming-CSA0814

DAY 1

(4 aug 24)

1.RIGHT TRIANGLE

Row=int(input())

For i in range(1,row+1)

Print(“\*”\*i)

OUTPUT

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2.LEFT TRIANGLE

row=5

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

print(" "\*(row-i)+"\*"\*i)

OUTPUT

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3.REMOVE DUPLICATES IN ARRAY

Arr={1,2,2,3,4,3,5}

a=list(arr)

b=set(a)

print(b)  
OUTPUT

{1,2,3,4,5}

4.PRINTING DUPLICATES AND PRINTING HOW MANY TIMES IT PRESENTS

arr=[1,2,3,3,4,5,6,1]

list1=[]

list2=[]

for i in arr:

if i not in list1:

list1.append(i)

elif :

list2.append(i)

print(list2)

print(len(list2))

OUTPUT

[3,1]

2

5.READ POSITIVE AND NEGATIVE NUMBER UNTILL -1 IS DETECTED AND PRINT SUM AND AVERAGE OF POSITIVE AND NEGATIVE NUMBERS.

Positivesum=0

Negativesum=0

Positivecount=0

Negativecount=0

Num=int(input())

While(num!=-1):

If num>0:

Positivesum+=num

Positivecount+=1

Else:

Negativesum+=num

Negativecount+=1

Num=int(input())

Print(positivesum)

Print(negativesum)

Print(positivecount)

Print(negativecount)

Positiveaverage=positivesum/positivecount

Negativeaverage=negativesum/negativecount

Print(positiveaverage)

Print(negativeaverage)

6.FIND A NUMBER IS TECH NUMBER OR NOT.

A=int(input())

B=len(str(a))

If b%2==0:

C=a%100

d=a//100

e=c+d

f=e\*\*2

if f==a:

print(“tech no”)

else:

print(“not a tech no”)

7.COUNTING THE PRIME AND COMPOSITE NUMBER

Num=int(input())

Primecount=0

Compcount=0

For i in range(1,n+1):

If num%i==0:

Primecount+=1

Else:

Compcount+=1

i+=1

print(primecount)

print(compcount)

8.PERFECT NUMBER

a=int(input()

Sum=0

For I in range(1,a):

If a%i==0

Sum+=i

If sum==a:

Print(“perfect no”)

Else:

Print(“not a perfect number”)

9.CONVERT A SENTENCE IN SWAPCASE AND COUNT THE WORDS

Sentence=input()

Print(sentence.upper())

Print(sentence.lower())

Words=sentence.split()

Print(len(words))

Word=0

For word in words:

If len(word)>0 and word[0]=”a” or word[0]=”A”

Word+=1

Print(word)

10.PRINTING ALPHABETS WITH ASCII CODE

Print(“ascii values in upper case”)

For char in range(65,91):

Print(char)

Print(“ascii values in lower case”)

For char in range(97,123):

Print(char)