Subodh shrestha

1.

x=[1,2,3,4,[10,20,30,40,[100,200,300,400],"rishabh\_",5+5j],4000]

print(x[4][0:2])

print(x[4][6])

print(x[4][4][2:4])

print(x[4][3:6])

2. y=[]

x=list(range(1,21))

print(x)

for i in x:

if i%2==0:

y.append(i)

print(y)

print(sum(y))

3.

x="hello&\*$$wprld"

def switch(draw):

global sum1,sum2,sum3,sum4,sum5,sum6,sum7,sum8

if draw=='!':

sum1+=1

elif draw=='@':

sum2+=1

elif draw=='#':

sum3+=1

elif draw=='$':

sum4+=1

elif draw=='%':

sum5+=1

elif draw=='^':

sum6+=1

elif draw=='&':

sum7+=1

elif draw=='\*':

sum8+=1

for i in x:

switch(i)

print("{!:",sum1,"@:",sum2,"#:",sum3,"$:",sum4,"%:",sum5,"^:",sum6,"&:",sum7,"\*:",sum8,"}")

4.

y=[]

for i in range(1,50,2):

y.append(i\*i\*i)

print(y)

5.

import copy

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

b=copy.copy(a\*3)

print(b)

6.

a="this is my sentence"

words=a.split()

for i in words:

print(len(i))

7.

a=[1,2,3,'d',5]

for i in a:

print(type(i)==int)