Python Assignment Programs

1.

def oddnumberout(nlist):

stray=nlist[0]

for i in nlist:

if stray!=i:

stray=i

return stray

print(oddnumberout([1,1,2])

2.

def closestmean(nlist):

mean=sum(nlist)/len(nlist)

res=abs(mean-nlist[0])

for I in nlist:

res2=abs(mean-i)

if res2<res

tres=i

return tres

print(closestmean([1,2,3,4])

3.

ti=60

l=[0,0.1,0.25,0.45,0.55,0.7,0.9,1.0]

total\_time=len(l)\*ti

total\_dist=sum(l)

avg\_speed=total\_dist/total\_time

print(avg\_speed)

4.

def bus(b):

print('enter details')

while(True):

   x=input('enter a to enter onboarding or b for alighting or press any other key to exit')

   if(x=='a'):

      b+=int(input())

   elif(x=='b'):

     b-=int(input())

   else:

     break

return b

5.

def findmissing(nlist,mlist):

return (sum(nlist)-sum(mlist))

6.

def lowest2(nlist):

nlist.sort(reverse=True)

return (abs(nlist.pop()-nlist.pop()))

7.

def smallerthanmean(nlist):

mean=sum(nlist)/len(nlist)

count=0

for i in nlist:

   if i<mean:

     count+=1

return count

1.

maltime=input('Enter the malformed time')

sec=str(int(maltime[-2:])%60)

extra\_min=int(maltime[-2:])//60

min=str((extra\_min+int(maltime[-5:-3])%60))

extra\_hour=(extra\_min+int(maltime[-5:-3]))//60

hour=str(extra\_hour+int(maltime[:-6]))

print(hour+':'+min+':'+sec)

2.

maldate=input('Enter malformed date')

day=str(int(maldate[:-8])%30)

extra\_month=int(maldate[:-8])//30

month=str((extra\_month+int(maldate[-7]\*10)+int(maldate[-6]))%12)

extra\_year=(extra\_month+int(maldate[-7:-5]))//12

year=str(extra\_year+int(maldate[-4:]))

print(day+'/'+month+'/'+year)

3.

def int2ip(num):

s = []

for i in range(4):

s.append(str(num %256))

num //= 256

return '.'.join(s[::-1])

def ip2int(ip):

res = 0

for j, i in enumerate(ip.split('.')[::-1]):

res += 256\*\*j\*int(i)

return res

4.s=input('Enter string')

d={}

count=0

for i in s:

  if(i not in d):

    d[i]=1

  else:

    count+=1

if count!=0:

  print('Not isogram')

else:

  print('isogram')

5.

s=input('enter string')

for i in range(len(s)):

  print(s[:i]+s[i].upper()+s[i+1:])

6.

x=input('enter number')

l=[]

for i in range(len(x)):

  l.append(int(x[:i]+x[i+1:]))

print(l)

print(max(l))

7.

x=input('Enter number')

a=list(map(int,list(x)))

a.sort(reverse=True)

s=''

for i in a:

  s+=str(i)

print(s)

8.

deffreq(msg,word):

nlist=msg.split(‘ ‘)

count=0

for i in nlist:

if i==word:

count+=1

return count

9.def int2ip(num):

s = []

for i in range(4):

s.append(str(num %256))

num //= 256

return '.'.join(s[::-1])

def ip2int(ip):

res = 0

for j, i in enumerate(ip.split('.')[::-1]):

res += 256\*\*j\*int(i)

return res

10.

def accumulate(msg):

nlist=[]

l=len(msg)

for i in range(l):

c=(msg[i])\*i

nlist.appen(c)

return nlist