Assignment

PS No:- 99004998

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1st

1.

myList = [1, 1, 1, 9, 1, 1, 1, 1, 1, 1, 1]

mySet = set(myList)

print(mySet)

2.

sum=0

mylist=[1,2,6,78,9]

for i in range(len(mylist)):

sum=sum+mylist[i]

average=sum/len(mylist)

ref=abs(mylist[0]-average)

for i in range(len(mylist)):

if ref>abs((mylist[i]-average)):

ref=abs((mylist[i]-average))

near=mylist[i]

print(near)

3.

onboard=[50,76,8,7]

alight=[6,9,0,1]

tot\_onboard,tot\_alight=0,0

for i in range(len(onboard)):

tot\_onboard+=onboard[i]

tot\_alight+=alight[i]

people\_in\_bus=tot\_onboard+tot\_alight

print(people\_in\_bus)

4.

list1 = [1, 2, 4]

list2 = [4, 5, 6]

set\_difference = set(list1) - set(list2)

list\_difference = list(set\_difference)

print(list\_difference)

5.

list1 = [1,2,3,7]

list2 = [2,3]

set1 = set(list1)

set2 = set(list2)

missing = list(sorted(set1 - set2))

print('missing:', missing)

6.

arr = [1, 4, 3, 19, 18, 25]

n = len(arr)

diff = 10\*\*20

for i in range(n-1):

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

if abs(arr[i]-arr[j]) < diff:

diff = abs(arr[i] - arr[j])

print("Minimum difference is " + str(diff))

7.

sum=0

mylist=[1, 12, 5, 78, 39, 67]

for i in range(len(mylist)):

sum=sum+mylist[i]

average=sum/len(mylist) #average=13.66666666

count=0

for i in range(len(mylist)):

if mylist[i]<average:

count=count+1

print(count)

2nd

1.

ti=”5:70:65”

ho=int(ti[0])

min=int(ti[2:4])

sec=int(ti[5:7])

if sec>60:

sec%=60

min+=1

if min>60:

min%=60

ho+=1

if min<10 and sec>10:

print(str(ho)+”:0”+str(min)+”:”+str(sec))

elif min>10 and sec<10:

print(str(ho)+”:”+str(min)+”:0”+str(sec))

elif min>10 and sec>10

print(str(ho)+”:”+str(min)+”:”+str(sec))

elif min<10 and sec<10

print(str(ho)+”:0”+str(min)+”:0”+str(sec))

elif min==0 and sec==00:

print(str(ho)+”:00:00”)

elif min==0 and sec>10:

print(str(ho)+”:00:”+str(sec))

elif min==0 and sec<10:

print(str(ho)+”:00:0”+ str(sec))

elif min>10 and sec==0:

print(str(ho)+”:”+str(min)+”:00”)

elif min<10 and sec==0:

print(str(ho)+”:0”+str(min)+”:00”)

2.

date=”45/08/2018”

dd=int(date[0:2])

mm=int(date[3:5])

yyyy=int(date[6:10])

if mm==1 or mm==3 or mm==5 or mm==7 or mm==8 or mm==10 or mm==12:

if dd>31:

dd=dd%31

mm=mm+1

elif mm==2 and yyyy%4==0:

if dd>28:

dd=dd%28

mm=mm+1

elif mm==2 and yyyy%4!=0:

if dd>29:

dd=dd%29

mm=mm+1

else:

if dd>30:

dd=dd%30

mm=mm+1

print(str(dd)+”/”+str(mm)+”/”+str(yyyy))

3.

num=123456789

s=[]

for i in range(4):

s.append(str(num %256))

num//256

print(num.join(s[::-1]))

res=0

ip=7.91.205.21

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

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

print(res)

4.

word=input(“Enter a string”)

clean\_word = word.lower()

letter\_list = []

for letter in clean\_word:

# If letter is an alphabet then only check

if letter.isalpha():

if letter in letter\_list:

print("False")

letter\_list.append(letter)

print("True")

5.

str="hello"

result=[]

for i in range(len(str)):

str=str.lower()

temp\_list=list(str)

if temp\_list[i].isalpha():

temp\_list[i]=str[i].upper()

str=''.join(temp\_list)

result.append(str)

print(result)

6.

print("Enter the Number :")

num=int(input())

Largest=0;

while (num > 0):

    reminder=num%10

    if Largest<reminder:

        Largest = reminder

    num =int(num / 10)

print("The Largest Digit is :", Largest)

7.

num=input(“Enter No.: “)

large=num[0]

for i in range(len(num)):

if num[i]>large:

large=num[i]

print(large)

8.

str ='apple mango apple orange orange apple guava mango mango'

str = str.split()

str2 = []

for i in str:

if i not in str2:

str2.append(i)

for i in range(0, len(str2)):

print('Frequency of', str2[i], 'is :', str.count(str2[i]))

9.

RGB=(255,0,255)

Hex=[‘0’,’1’,’2’,’3’,’4’,’5’,’6’,’7’,’8’,’9’,’A’,’B’,’C’,’D’,’E’,’F’]

R1=int(RGB[0]/16)

R2=RGB[1]%16

G1=int(RGB[1]/16)

G2=RGB[1]%16

B1=int(RGB[2]/16)

B2=RGB[2]%16

print(“0x”+Hex[R1]+Hex[R2]+Hex[G1]+Hex[G2]+Hex[B1]+Hex[B2])

10.

num=[‘1’,’2’,’3’,’4’,’5’,’6’,’7’,’8’,’9’,’10’,’11’,’12’,’13’,’14’,’15’,’16’,’17’,’18’,’19’,’20’,’21’,’22’,’23’,’24’,’25’,’26’]

small=[‘a’,’b’,’c’,’d’,’e’,’f’,’g’,’h’,’i’,’j’,’k’,’l’,’m’,’n’,’o’,’p’,’q’,’r’,’s’,’t’,’u’,’v’,’w’,’x’,’y’,’z’]

large=[‘A’,’B’,’C’,’D’,’E’,’F’,’G’,’H’,’I’,’J’,’K’,’L’,’M’,’N’,’O’,’P’,’Q’,’R’,’S’,’T’,’U’,’V’,’W’,’X’,’Y’,’Z’]

str=”abde”

for i in str:

for j in range(len(str)+1):

if i==small[j]:

print(large[j]+small[j]\*(j))