**1.**

list1=[3,3,4,3,3]

strayno=list1[0]

for i in range(len(list1)):

if(list1[i]==strayno):

continue

else:

print(list1[i])

**2.**

list2=[3,5,7,10,2,4]

sum1=0

for i in range(len(list2)):

sum1=list2[i]+sum1

mean=float(sum1)/float(len(list2))

diff=abs(mean-list2[0])

temp=list2[i]

for i in range(len(list2)):

if(abs(mean-list2[i])<diff):

diff = abs(mean - list2[i])

temp=list2[i]

else:

continue

print(temp)

**3.**

dist = [2, 4, 6, 9, 100, 45, 899, 56, 3, 6]

length = len(dist)

time = 5 # time in seconds

sum1 = 0

for i in range(len(dist)):

sum1 = sum1 + dist[i]

avg\_speed = sum1/(len(dist) \* time)

print(avg\_speed)

**4.**

no\_of\_people\_on\_boarding = [2, 4, 6, 7, 9]

station\_name = ['A', 'B', 'C', 'D', 'E']

y = 0

sum1 = 0

def no\_of\_people\_in\_bus( x ):

for i in range(len(station\_name)):

if x == station\_name[i]:

return i

k = no\_of\_people\_in\_bus('B')

for i in range(k+1):

sum1 = sum1 + no\_of\_people\_on\_boarding[i]

print(sum1)

**5.**

def Diff(orignal\_list, modified\_list):

return list(set(orignal\_list) - set(modified\_list)) + list(set(modified\_list) - set(orignal\_list))

orignal\_list = [1, 2, 3, 4, 5]

modified\_list = [1, 2, 3, 5]

print(Diff(orignal\_list, modified\_list))

**6.**

x = [2, 4, 6, 1, 8, 9]

x.sort()

print(x[1]-x[0])

**7.**

list3=[65,34,32,3,67,78,6]

sum3=0

count=0

for i in range(len(list3)):

sum3=list3[i]+sum3

mean=float(sum3)/float(len(list3))

for i in range(len(list3)):

if(list3[i]<mean):

count+=1

else:

continue

print(count)