**Assignment 1**

**1. mylist=[2,2,2,2,2,5,2,2]**

print(mylist[5])

**2. mylist=[1,2,3,4,5]**

sum = 0

for i in mylist:

sum = sum+i

k= len(mylist)

val=sum/k

for c in mylist:

if mylist[c]-val < 0.5:

print(mylist[c])

**3. mylist=[0,0.1,0.25,0.45,0.55,0.7,0.9,1.0]**

sum = 0

for i in mylist:

sum = sum+i

val=sum/len(mylist)

print(val)

**4. onboard=[3,2,0,4,5]**

alight=[0,2,1,2,4]

sum1 = 0

sum2=0

for i in onboard:

sum1 = sum1+i

for i in alight:

sum2 = sum2 + i

val=sum1-sum2;

print(val)

**5. oldlist=[3,2,0,4,5]**

mylist=[5,2,3,4]

for i in oldlist:

if oldlist[i]!=mylist[i]:

print(oldlist[i])

**6. mylist=[3,2,0,4,5,8,7,1,6]**

mylist.sort()

i=len(mylist)

val=mylist[i-1]-mylist[i-2]

print(val)

**7. mylist=[3,2,0,4,5,8,7,1,6]**

sum = 0

for i in mylist:

sum = sum+i

k = len(mylist)

val=sum/k

for c in mylist:

if mylist[c] < val:

print(mylist[c])