EXP 5:weight updation

import numpy as np

A = ([1,0,0,0],

        [1,0,0,1],

        [1,0,1,0],

        [1,0,1,1],

        [1,1,0,0],

        [1,1,0,1],

        [1,1,1,0],

        [1,1,1,1])

l=len(A)

class1=[0,1,1,1,1,1,1,1] # stroage for A

class2=[]\*7 # storage for new A

#print(A)

weight=[0,0,-1,2]

while (class1!=class2): # if classA !=class newA

    class2.clear()      # newA class empty

    for x in range(0,l):

        w=np.multiply(weight,A[x]) # pla basic condtion

        if(class1[x]==0 and (sum(w)>=0)):

            weight=np.subtract(weight,A[x])

            class2.append(1)

        elif(class1[x]==1 and (sum(w)>=0)):

            class2.append(1)

        if(class1[x]==1 and (sum(w)<0)):

            weight=np.add(weight,A[x])

            class2.append(0)

        elif(class1[x]==0 and (sum(w)<0)):

            class2.append(0)

print(weight)

output:

[-1 1 1 2]