```
In [2]:
         import math
         a=[]
         n=int(input("Number of elements in array:"))
         for i in range(0,n):
           l=float(input())
            a.append(1)
         #mean
         get_sum = sum(a)
         mean = get_sum / n
         print("Mean / Average is: " + str(mean))
         #median
         a.sort()
         if n % 2 == 0:
            median1 = a[n//2]
            median2 = a[n//2 - 1]
            median = (median1 + median2)/2
         else:
            median = a[n//2]
         print("Median is: " + str(median))
         #standard deviation
         vari=0.0
         for i in a:
            z=i-mean
            vari=vari+(z**2)
         print("variance is:", vari)
         sd=math.sqrt(vari)
         print("std dev",sd)
         # mode of elements
         print('standardisation:')
         for i in a:
             std=(i-mean)/sd
             print(std)
         print('Min max normalisation')
         z=a[9]-a[0]
         for i in a:
            y=(1-a[0])/z
            print(y)
         C=0.0
         modee=0.0
         for i in range(0,10):
             for j in range(i+1,10):
                 if a[i]==a[j]:
                     c=c+1
             if c>1:
                 1=c
                 modee=a[i]
             print("There is no mode")
         else:
             print("mode", modee)
        Number of elements in array:10
        115.3
        195.5
        120.5
        110.2
        90.4
        105.6
        110.9
        116.3
        122.3
        125.4
        Mean / Average is: 121.2400000000001
        Median is: 115.8
        variance is: 7017.724
        std dev 83.7718568494217
        standardisation:
        -0.3681427290722982
        -0.1866975448343304
        -0.1317865022359979
        -0.12343047401451247
        -0.07090686805089026
        -0.05896968487733974
        -0.008833515548427498
        0.012653414163963414
        0.04965868200197015
        0.8864552224678619
        Min max normalisation
        -0.850618458610847
        -0.850618458610847
        -0.850618458610847
        -0.850618458610847
        -0.850618458610847
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        -0.850618458610847
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        mode 0.0
In [ ]:
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