import numpy as np  
data=np.array([5,15,10,20,25,30,25,35])  
  
#Mean  
mean=np.mean(data)  
print('Mean:',mean)  
  
#Median  
median=np.median(data)  
print('Median:',median)  
  
#Mode  
from scipy import stats  
mode=stats.mode(data)  
print("Mode:",mode[0])  
  
#Show dictonary  
dir(np)  
import scipy as sc  
dir(sc)  
  
#SD  
std\_dev=np.std(data)  
print("Standard Deviation:",std\_dev)  
  
#Variance  
variance=np.var(data)  
print('Variance',variance)  
  
#Skewnwess ,Kurtosis  
from scipy.stats import skew,kurtosis  
Skewnwess=stats.skew(data)  
Kurtosis=stats.kurtosis(data)  
print('Skewnwess:',Skewnwess)  
print('Kurtosis:',Kurtosis)  
  
X=np.array([1,2,3,4,5])  
Y=np.array([2,4,5,4,5])  
correlation\_matrix=np.corrcoef(X,Y)  
correlation= correlation\_matrix[0,1]  
print("Pearson correlation coefficient:",correlation)  
mean\_X= np.mean(X)  
mean\_Y= np.mean(Y)