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***Div: E-4***

***Sub: EDS Assignment 3***



***Code***:

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| f1 = open("D:\\Assignment\_564\\testmarks1.csv",'r') f2 = open("D:\\Assignment\_564\\testmarks2.csv",'r') import numpy as np array= np.loadtxt('D:\\Assignment\_564\\testmarks1.csv',dtype=str,delimiter=',') print(array) import numpy as np array1= np.loadtxt('D:\\Assignment\_564\\testmarks1.csv',dtype=float,delimiter=',',skip rows = 1) print(array1) array2 = array1.astype(float) print(array1) RollNo = array1[:,0]  EDS = array1[:,1]  SON = array1[:,2]  DT = array1[:,3] ET = array1[:,4] print(RollNo) print(EDS) print(SON) print(DT) print(ET)  #mean marks of students in EDS course mean\_EDS = np.mean(EDS) print(mean\_EDS)  #standard deviation of marks in SON course std\_deviation\_SON = np.std(SON) print(std\_deviation\_SON)  #correlation between two courses marks {DT and ET} corr\_DT\_ET = np.corrcoef(DT,ET) print(corr\_DT\_ET)  #to print the sum of marks in the row print(np.sum(SON,axis = 0))  #to print maximum marks scored in DT print(max(DT))  #to print minimum marks scored in EDS |
| print(min(EDS))  #to stack the two arrays vertically Vstack = np.vstack((EDS,DT)) print(Vstack)  #to copy the transpose of an array in another array sample\_array = np.fastCopyAndTranspose(Vstack) print(sample\_array)  #to check whether the performance of a student is better in one course compared to another course for i in range(0,10): performance\_checker = np.greater\_equal(ET[i],SON[i]) print(RollNo[i]) if(performance\_checker == False):  print("not good performance than SON") else:  print("good performance than SON") Increasing\_marks\_SON = np.sort(SON) print(Increasing\_marks\_SON) |

***SCREENSHOT:***









