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Sub: EDS Assignment 3

## Code:

```
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:**









