PRACTICLE NO: 3

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ROLL NO:358.

BATCH : C3

PRN :202201040046

```
import numpy as np
array3=
np.loadtxt("/content/testmarks1.csv",delimiter=',',dtype=str,ski
prows=1)
print(array3)
Rollno=[]
Eds=[]
son=[]
 Dt=[]
 Et=[]
for i in array3:
 Eds.append(float(i[1]))
 son.append(float(i[2]))
 Dt.append(float(i[3]))
 Et.append(float(i[4]))
 print(Eds)
 print(son)
 print(Dt)
 print(Et)
 m=max(Edsarr)
 mi=min(sonarr)
```

```
Edsarr=np.array(Eds)
sonarr=np.array(son)
Dtarr=np.array(Dt)
Etarr=np.array(Et)
std=np.std(Dtarr)
med=np.median(Etarr)
var=np.var(Edsarr)
mean=np.mean(sonarr)
sort=np.sort(Dtarr)
search = np.where(sonarr == 26.16)
print(dt)
print("The min of son",mi)
print("The max of eds",m)
print("The std of Dtarr",std)
print("The med of Etarr",med)
print("The var of Edsarr",var)
print("The mean ofsonarr ",mean)
print("The sortedc arr of Dtarr ",sort)
print("The search arr of sonarr ",search)
```

OUTPUT

```
['801' '43.05' '27.79' '28.7' '27.79']
 ['802' '43.47' '28.52' '28.98' '27.89']
 ['803' '42.24' '28.16' '28.16' '25.63']
 ['804' '39.24' '26.16' '26.16' '26.16']
 ['805' '40.9' '26.03' '27.27' '25.65']
 ['806' '39.47' '26.31' '26.31' '25.21']
 ['807' '41.68' '25.63' '27.79' '25.46']
 ['808' '42.19' '27.61' '28.13' '26.21']
 ['809' '44.75' '28.35' '29.83' '28.21']
```

['810' '46.95' '28.88' '31.3' '28.53']]

[43.05, 43.47, 42.24, 39.24, 40.9, 39.47, 41.68, 42.19, 44.75, 46.95]

[27.79, 28.52, 28.16, 26.16, 26.03, 26.31, 25.63, 27.61, 28.35, 28.88]

[28.7, 28.98, 28.16, 26.16, 27.27, 26.31, 27.79, 28.13, 29.83, 31.3]

[27.79, 27.89, 25.63, 26.16, 25.65, 25.21, 25.46, 26.21, 28.21, 28.53]

The min of son 25.63

The max of eds 46.95

The std of Dtarr 1.4784725225718605

The med of Etarr 26.185000000000002

The var of Edsarr 4.920064000000002

The mean ofsonarr 27.344

The sortedc arr of Dtarr [26.16 26.31 27.27 27.79 28.13 28.16 28.7 28.98 29.83 31.3]

The search arr of sonarr (array([3]),)