Name:Sanskar Mandavkar

Rolll no.:831

PRN:202201090137

Practical 5

Code:

```
import matplotlib.pyplot as plt

import pandas as pd

import numpy as np

df=pd.read_csv('testmarks.csv')

rno=np.array(df['RollNo'])

eds=np.array(df['EDS'])

son=np.array(df['SON'])

dt=np.array(df['DT'])

et=np.array(df['ET'])

subject=['ET','DT','EDS','SON']

plt.figure(figsize=(15,15))

plt.subplot(3,4,1)

plt.plot(rno,eds)

plt.subplot(3,4,2)

plt.plot(rno,son)

plt.subplot(3,4,3)

plt.plot(rno,dt)

plt.subplot(3,4,4)
```

```
plt.plot(rno,et)
plt.show
max=[]
max.append(df['EDS'].max())
max.append(df['SON'].max())
max.append(df['DT'].max())
max.append(df['ET'].max())
print("max is:",max)
plt.subplot(3,4,5)
plt.plot(max,subject)
min=[]
min.append(df['EDS'].min())
min.append(df['SON'].min())
min.append(df['DT'].min())
min.append(df['ET'].min())
print("min is:",min)
plt.subplot(3,4,6)
plt.plot(min,subject)
avg=[]
avg.append(df['EDS'].mean())
avg.append(df['SON'].mean())
avg.append(df['ET'].mean())
avg.append(df['DT'].mean())
print("average is",avg)
plt.subplot(3,4,7)
```

```
plt.plot(avg,subject)
std=[]
std.append(df['EDS'].std())
std.append(df['ET'].std())
std.append(df['SON'].std())
std.append(df['DT'].std())
print("std is",std)
plt.subplot(3,4,8)
plt.plot(subject,std)
mode=[]
mode.append(df['EDS'].mode())
mode.append(df['ET'].mode())
mode.append(df['SON'].mode())
mode.append(df['DT'].mode())
print("mode is",mode)
plt.subplot(3,4,9)
plt.plot(subject,mode)
median=[]
median.append(df['EDS'].median())
median.append(df['ET'].median())
median.append(df['SON'].median())
median.append(df['DT'].median())
print("median is",median)
plt.subplot(3,4,10)
plt.plot(subject,median)
```

plt.show

Output: