PRACTICAL 5

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ROLL NO:851
BATCH: H3

CODE:

#EXTRACTING THE FILE

```
import pandas as pd
import matplotlib.pyplot as plt
df=pd.read_csv("testmarks1.csv")
print(df)
```

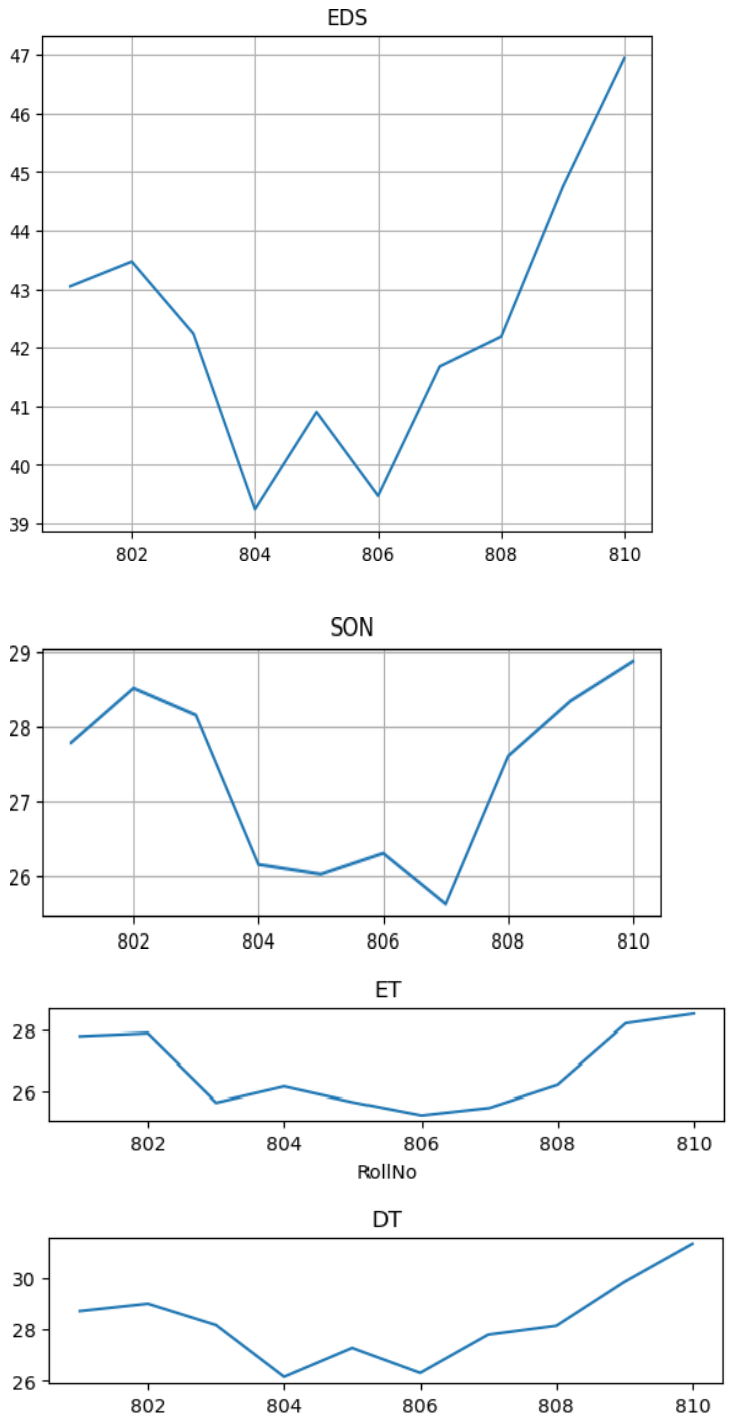
```
   RollNo    EDS    SON     DT     ET
0     801  43.05  27.79  28.70  27.79
1     802  43.47  28.52  28.98  27.89
2     803  42.24  28.16  28.16  25.63
3     804  39.24  26.16  26.16  26.16
4     805  40.90  26.03  27.27  25.65
5     806  39.47  26.31  26.31  25.21
6     807  41.68  25.63  27.79  25.46
7     808  42.19  27.61  28.13  26.21
8     809  44.75  28.35  29.83  28.21
9     810  46.95  28.88  31.30  28.53
```

#PLOTTING LINE GRAPH

```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt

df=pd.read_csv("testmarks1.csv")
```

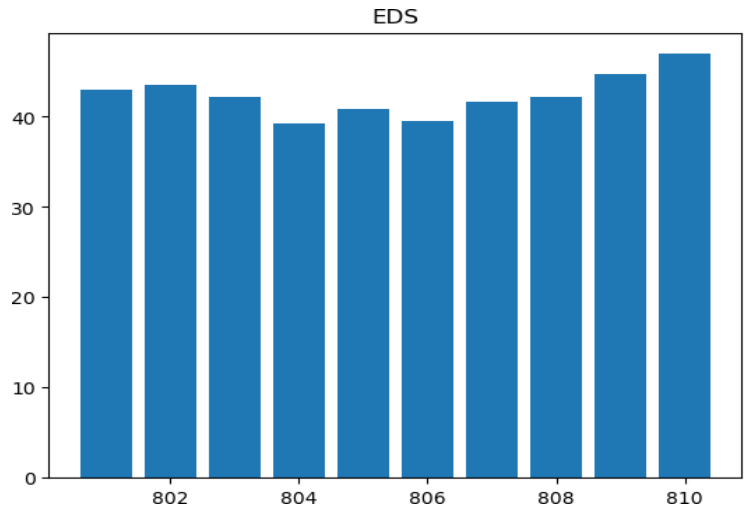
```
#Plot1
xpoints=np.array(df['RollNo'])
ypoints=np.array(df['EDS'])
plt.subplot(1,1,1)
plt.plot(xpoints,ypoints)
plt.title('EDS')
plt.grid()
plt.show()

#plot2
xp=np.array(df['RollNo'])
yp=np.array(df['SON'])
plt.subplot(2,1,2)
plt.plot(xp,yp)
plt.title('SON')
plt.grid()
plt.show()

#plot3
xp1=np.array(df['RollNo'])
yp1=np.array(df['DT'])
plt.subplot(3,1,3)
plt.plot(xp1,yp1)
plt.title('DT')
plt.show()

#plot4
xp2=np.array(df['RollNo'])
yp2=np.array(df['ET'])
```

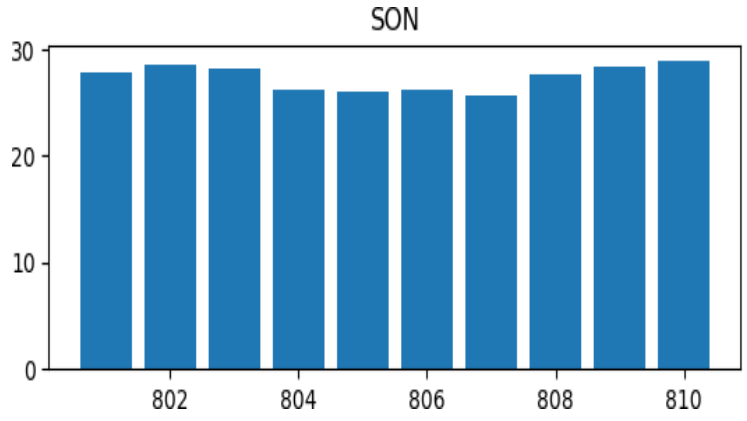
```
plt.subplot(4,1,4)
plt.plot(xp2,yp2)
plt.title('ET')


plt.xlabel('RollNo')
plt.show()
```

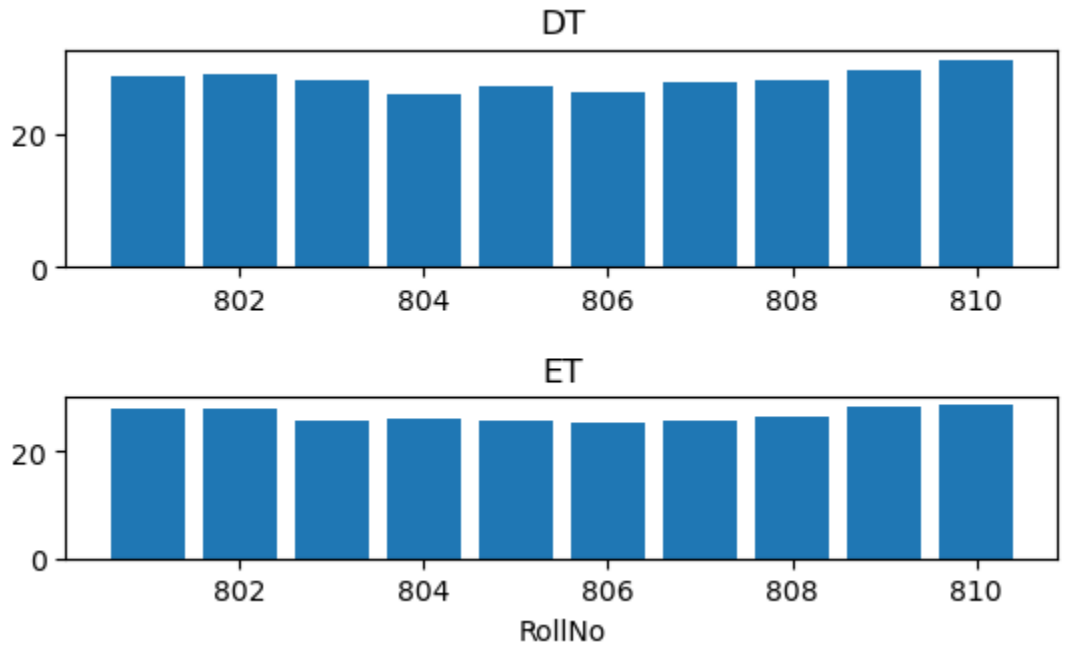


```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt

df=pd.read_csv("testmarks1.csv")
#Plot1
xpoints=np.array(df['RollNo'])
ypoints=np.array(df['EDS'])
plt.subplot(1,1,1)
plt.bar(xpoints,ypoints)
plt.title('EDS')
plt.show()

#plot2
xp=np.array(df['RollNo'])
yp=np.array(df['SON'])
plt.subplot(2,1,2)
plt.bar(xp,yp)
plt.title('SON')
plt.show()

#plot3
xp1=np.array(df['RollNo'])
yp1=np.array(df['DT'])
plt.subplot(3,1,3)
plt.bar(xp1,yp1)
plt.title('DT')
plt.show()
```

```
#plot4
xp2=np.array(df['RollNo'])
yp2=np.array(df['ET'])
plt.subplot(4,1,4)
plt.bar(xp2,yp2)
plt.title('ET')

plt.xlabel('RollNo')
plt.show()
```

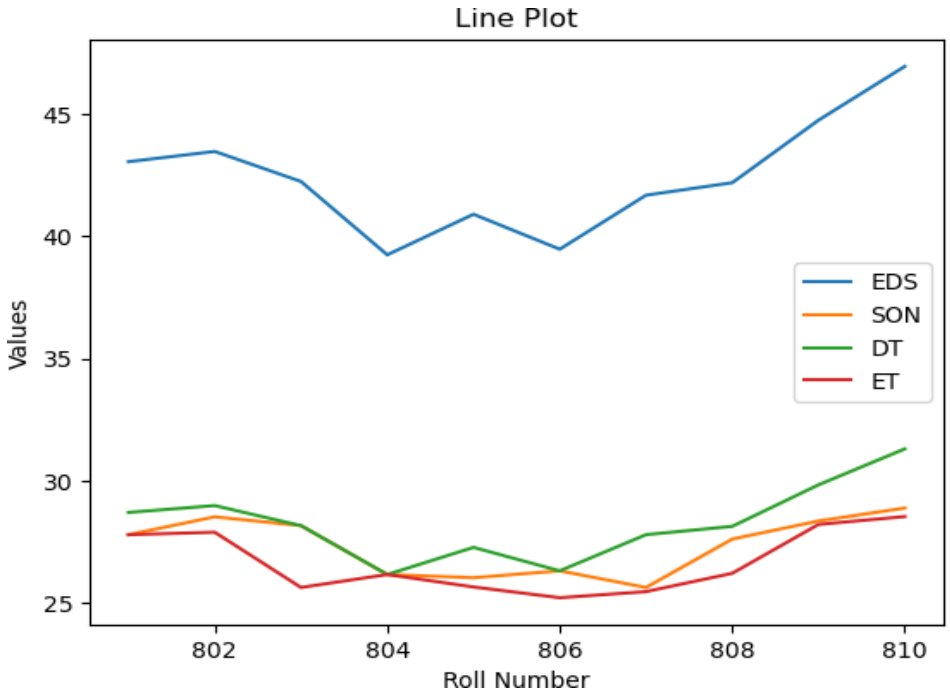






Plotting the line plot

```
df.plot(x='RollNo', y=['EDS', 'SON', 'DT', 'ET'])

plt.xlabel('Roll Number')

plt.ylabel('Values')

plt.title('Line Plot')

plt.legend(['EDS', 'SON', 'DT', 'ET'])

plt.show()
```


Line Plot
45
40
35
30
25
Values
802
804
806
808
810
Roll Number
EDS
SON
DT
ET