AssignmentNo. 5

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Roll No:-744

PRN No:-202201060032

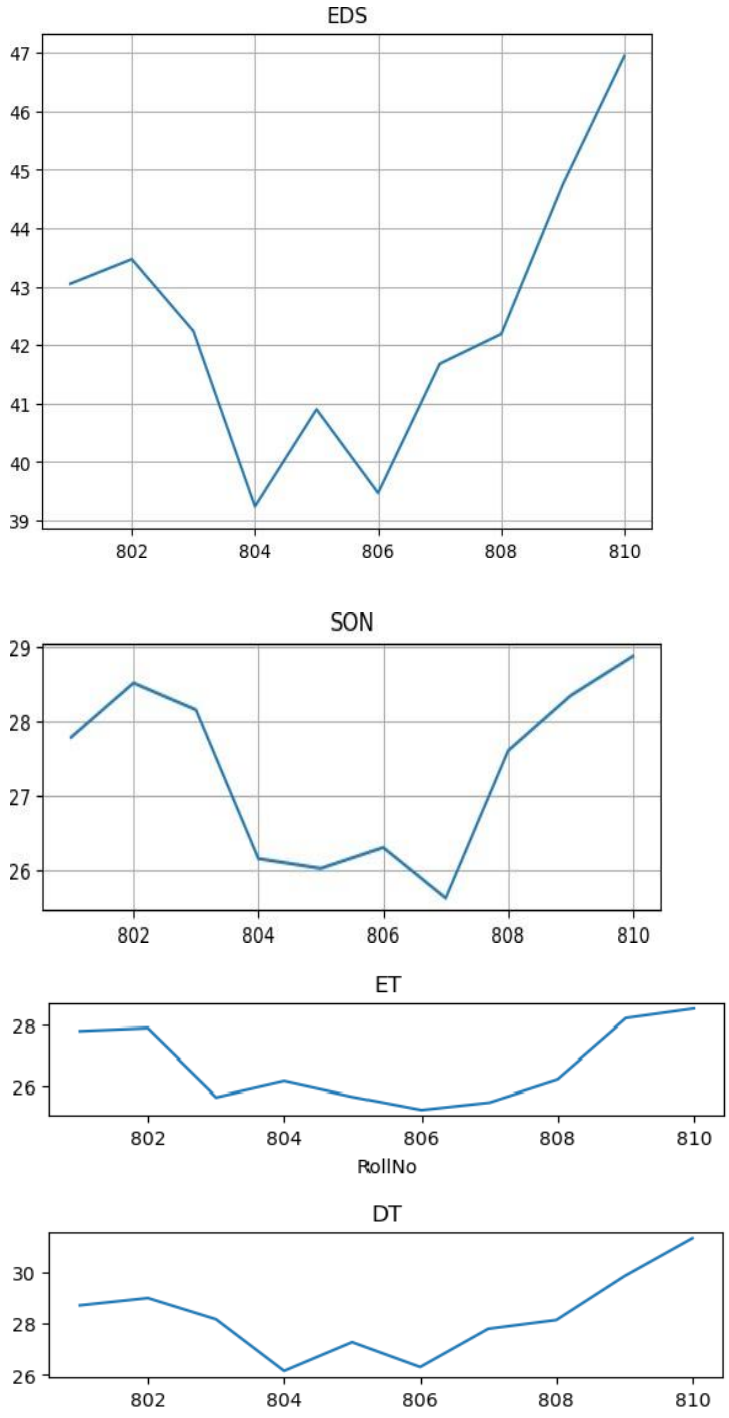
```
import pandas as pd
import matplotlib.pyplot as plt df=pd.read_csv("testmarks1.csv")
print(df)
```

```
  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
```

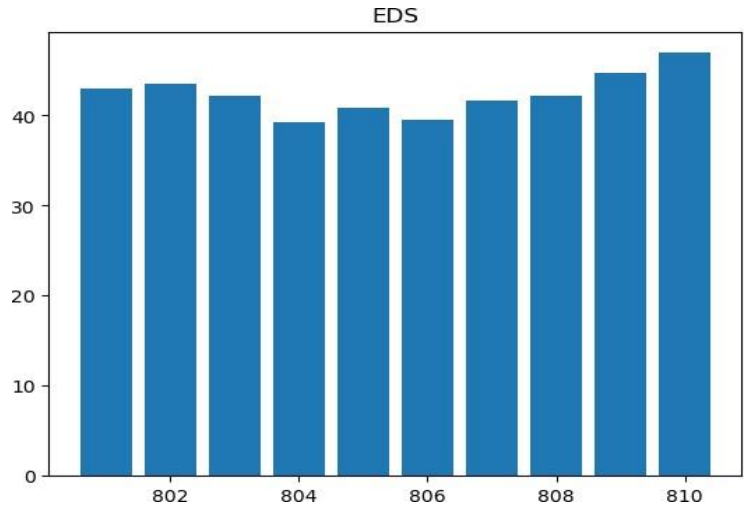
```
import matplotlib.pyplot as plt


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'])
```

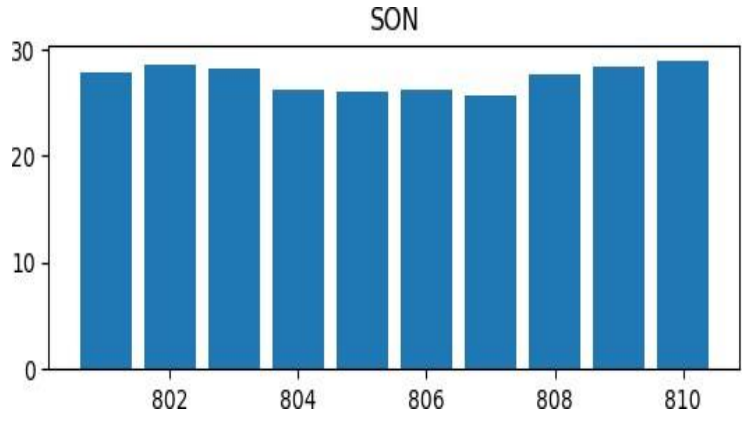
```
plt.subplot(4,1,4)
plt.plot(xp2,yp2)
plt.title('ET')

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

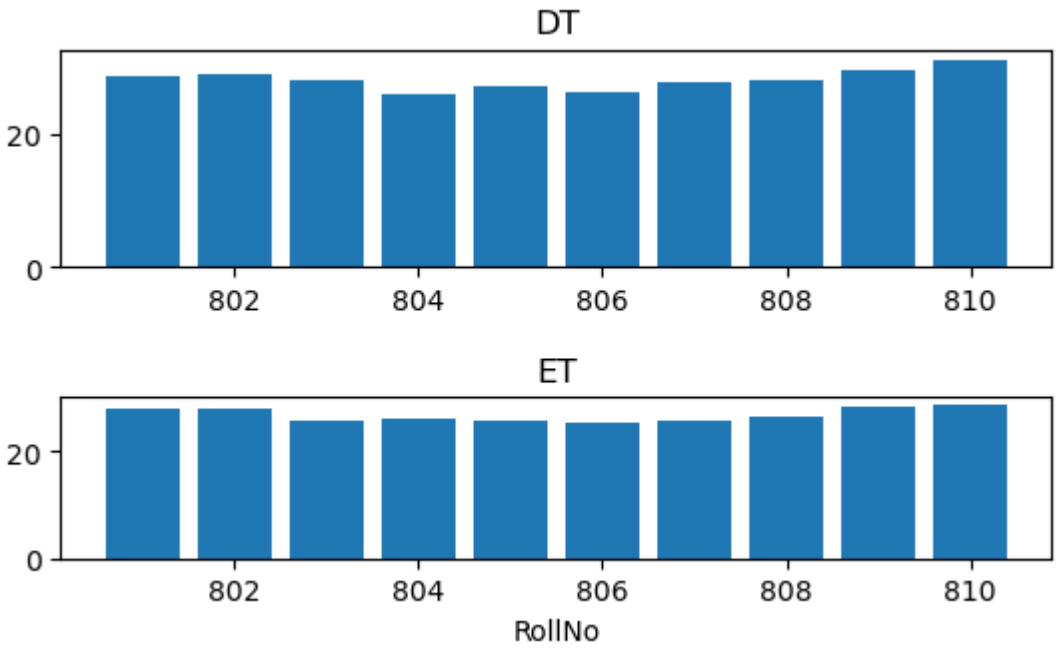


```
import numpy as np import
pandas as pd
import matplotlib.pyplot as plt

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()
```







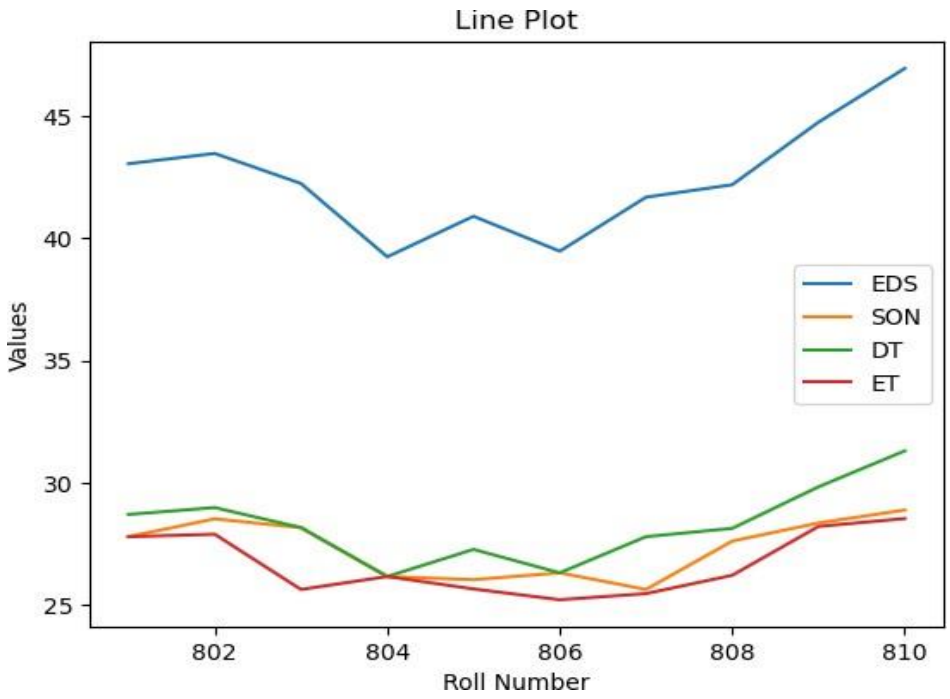
Plotting the line plot

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