Practical NO 5

MATPLOTLIB PRACTICE

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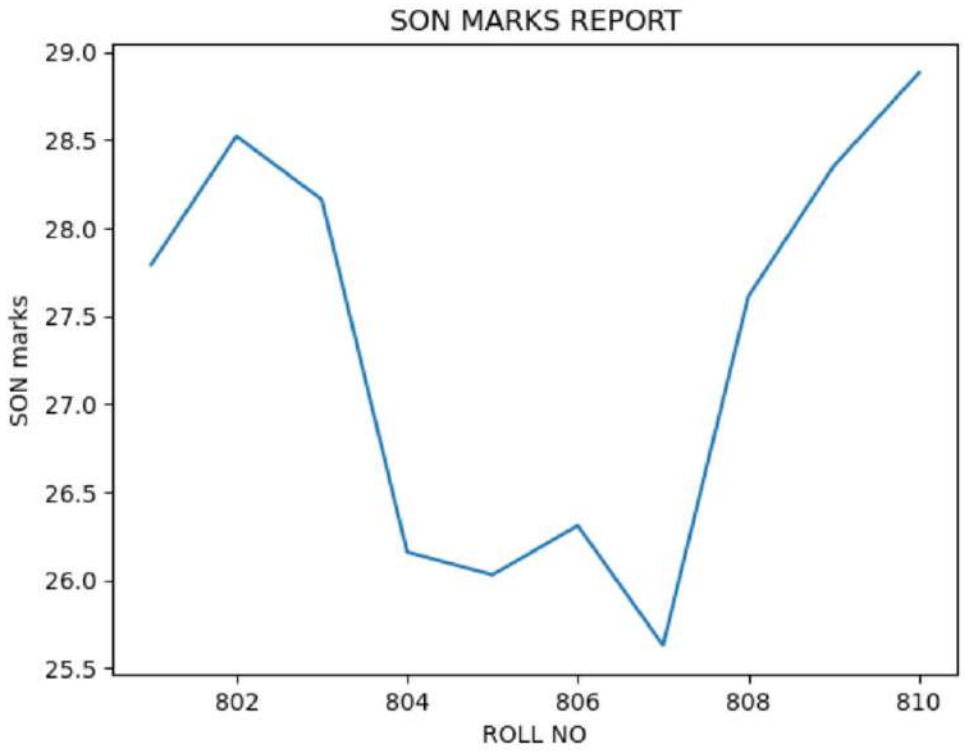
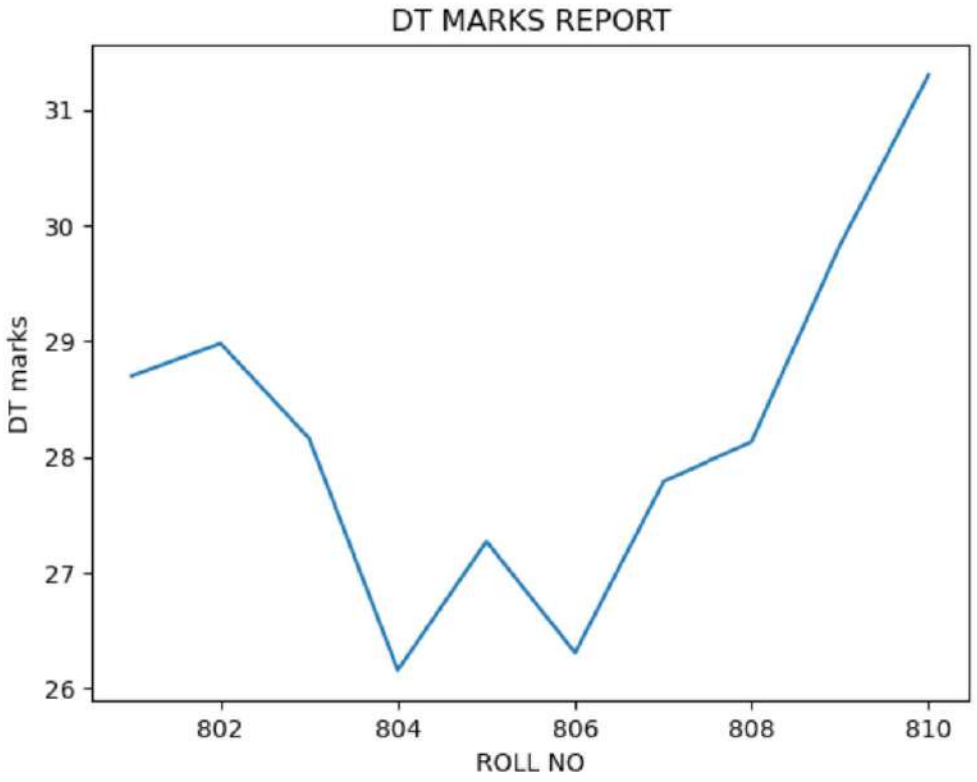
Div:H1 ROLL NO:814

EDS Graded Practical

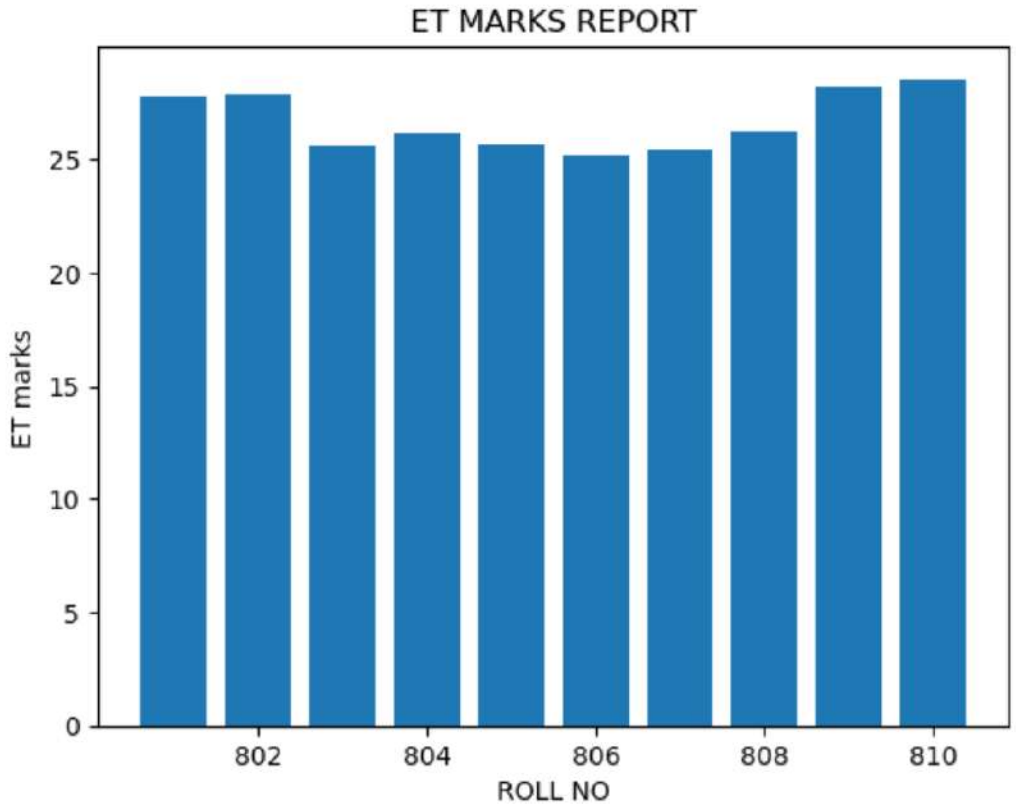
```
x=df["RollNo"]
plt.title("SON MARKS REPORT")
plt.xlabel("ROLL NO")
y=df["SON"]
plt.ylabel("SON marks")
plt.plot(x,y)
plt.show()
```



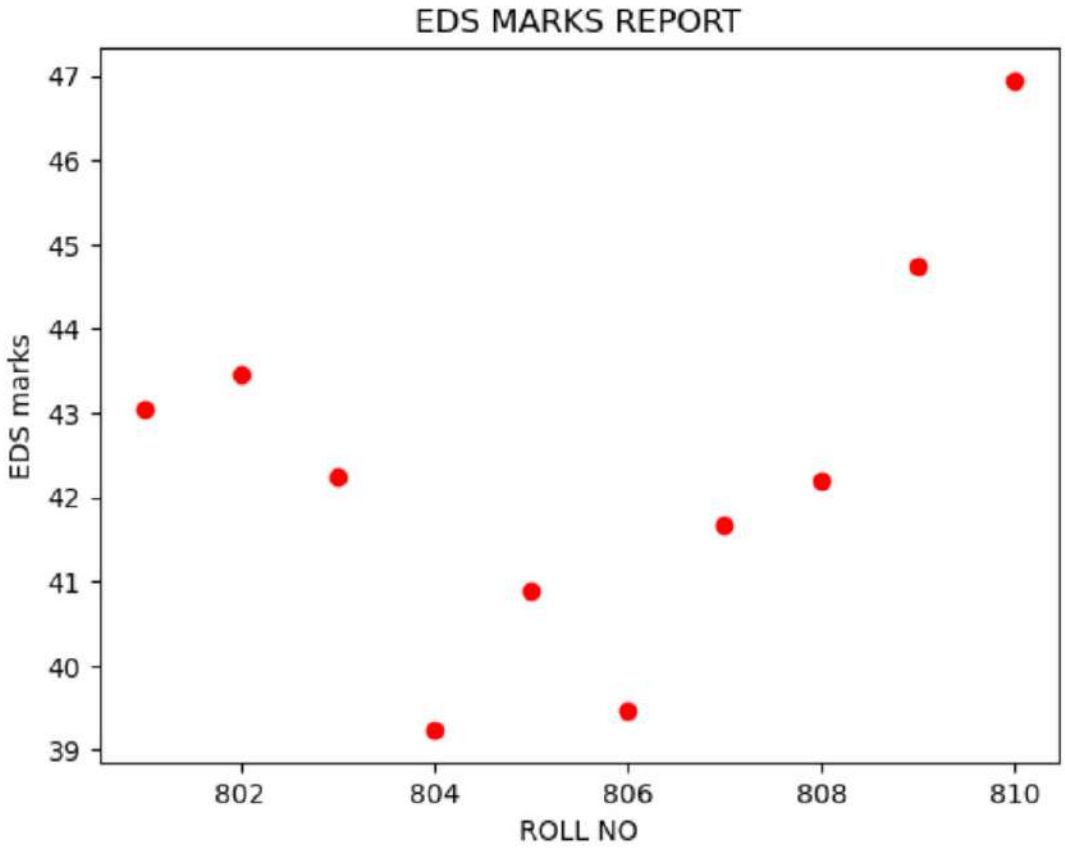
```
x=df["RollNo"]
plt.title("DT MARKS REPORT")
plt.xlabel("ROLL NO")
y=df["DT"]
plt.ylabel("DT marks")
plt.plot(x,y)
plt.show()
```



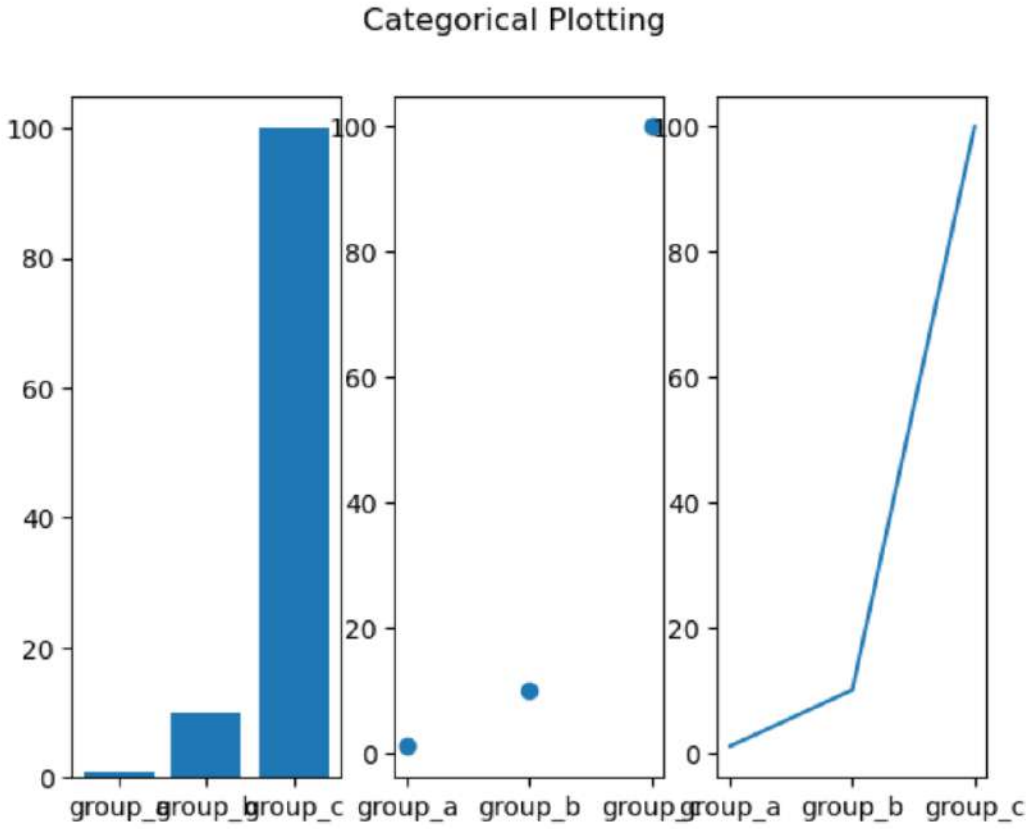
```
x=df["RollNo"]
plt.title("ET MARKS REPORT")
plt.xlabel("ROLL NO")
y=df["ET"]
plt.ylabel("ET marks")
plt.bar(x,y)
plt.show()
```



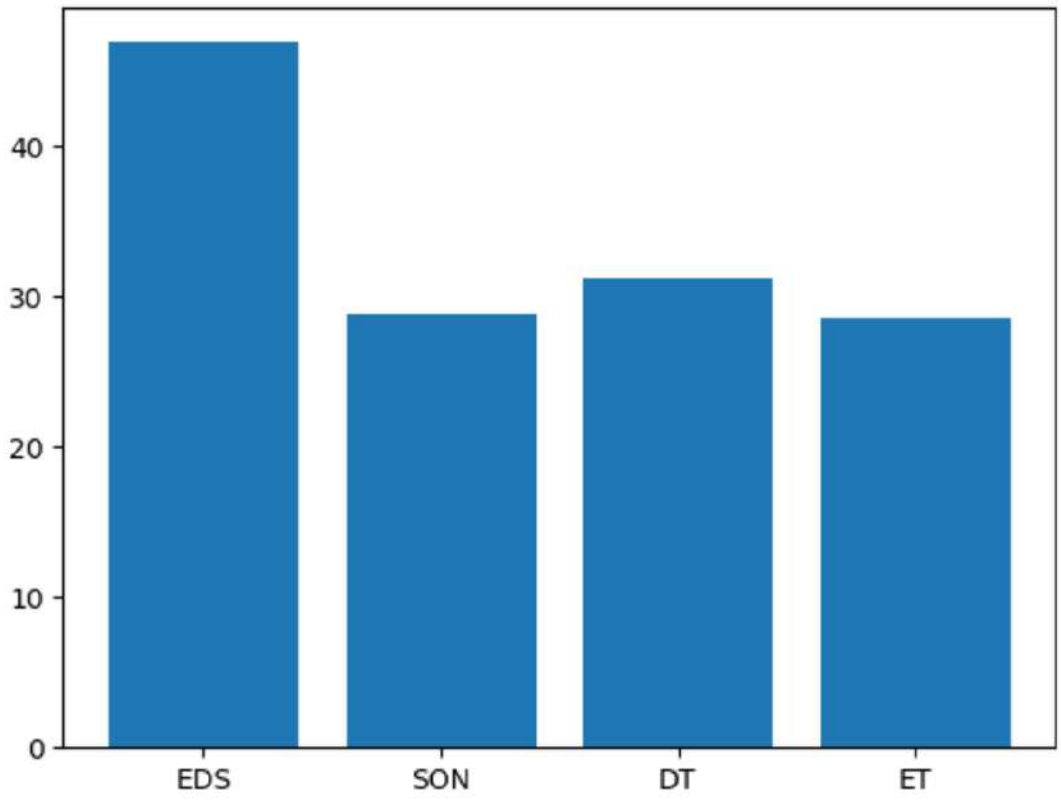
```
df=pd.read_csv("testmarks1.csv")
x=df["RollNo"]
plt.title("EDS MARKS REPORT")
plt.xlabel("ROLL NO")
plt.ylabel("EDS marks")
y=df["EDS"]

plt.plot(x, y, 'ro')
#plt.axis([0, 6, 0, 20])
plt.show()
```



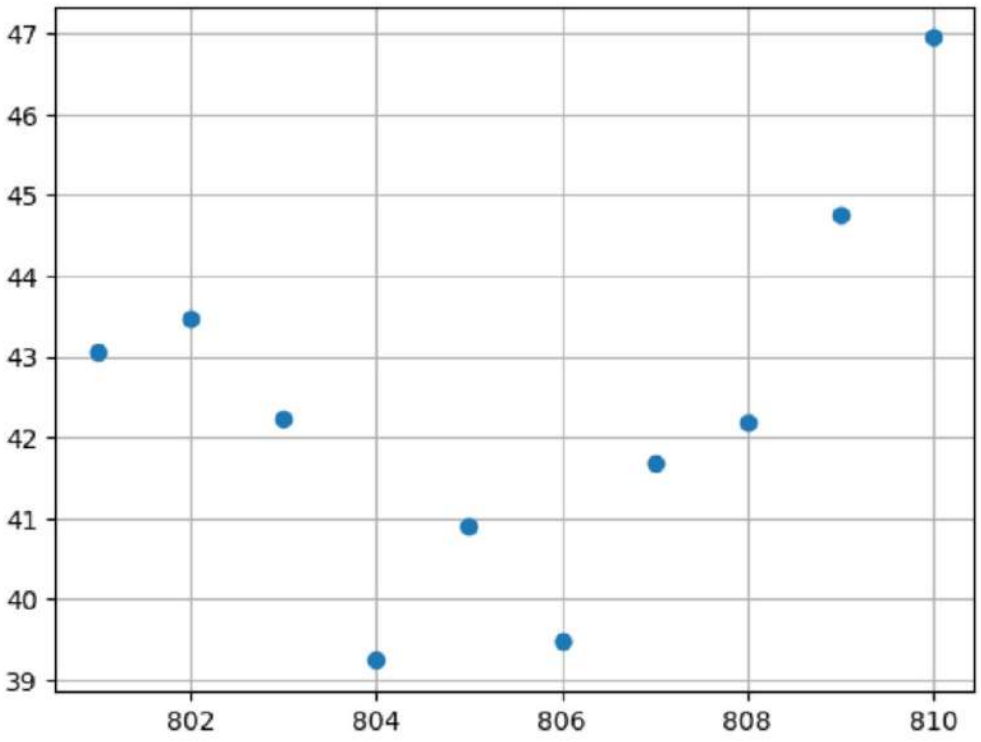
```
names = ['group_a', 'group_b', 'group_c']
values = [1, 10, 100]


#plt.figure(figsize=(9, 3))

plt.subplot(131)
plt.bar(names, values)
plt.subplot(132)
plt.scatter(names, values)
plt.subplot(133)
plt.plot(names, values)
plt.suptitle('Categorical Plotting')
plt.show()
```



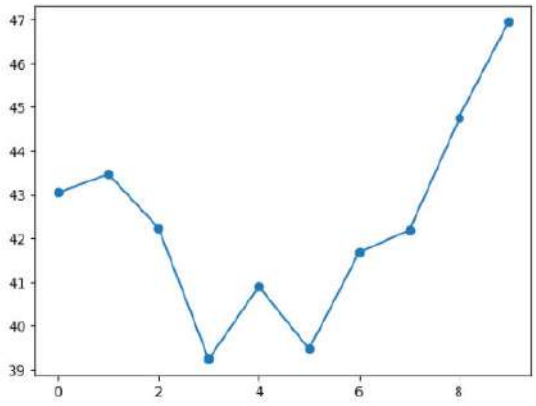
```
names = ['EDS', 'SON', 'DT',"ET"]
values = [max(df["EDS"]),max(df["SON"]),max(df["DT"]),max(df["ET"])]

plt.plot()
plt.bar(names, values)
plt.show()
```



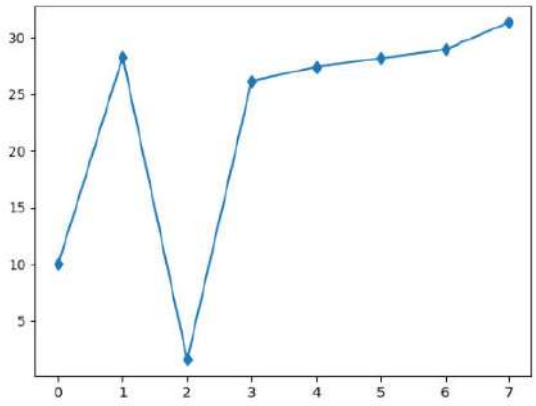
```
xpoints = np.array(df["RollNo"])
ypoints = np.array(df["EDS"])

plt.plot(xpoints, ypoints, 'o')
plt.grid()

plt.show()
```



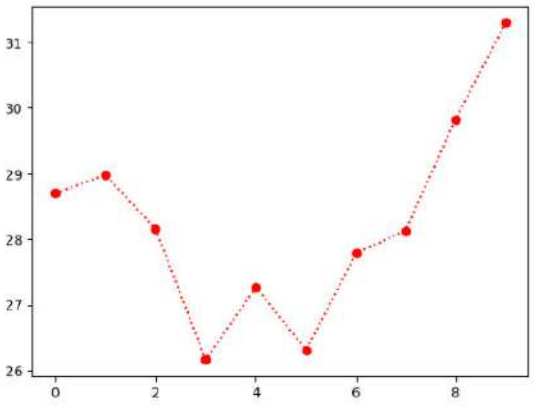
```
ypoints = np.array(df["EDS"])

plt.plot(ypoints, marker = 'o')
plt.show()
```



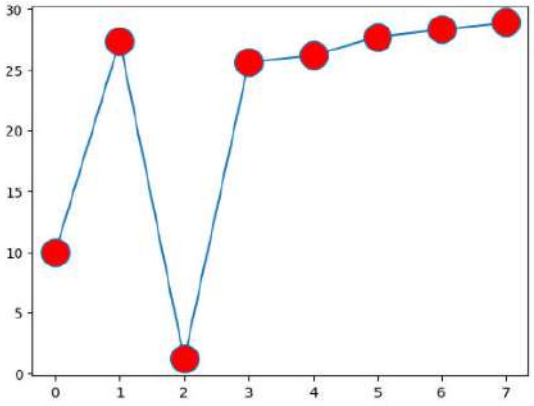

```
ypoints = np.array(df["DT"].describe())

plt.plot(ypoints, marker = 'd')
plt.show()
```



```
plt.plot(ypoints, 'o:r')
plt.show()
```



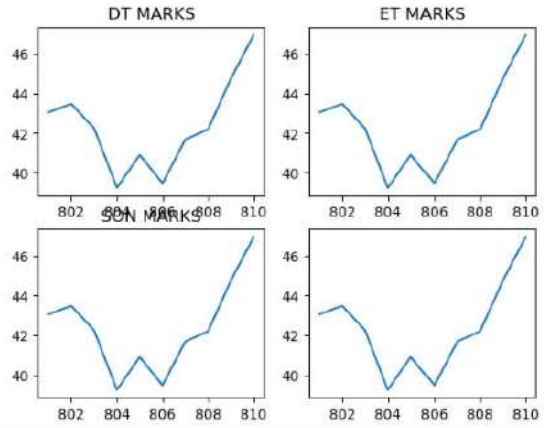

```
ypoints = np.array(df["SON"].describe())


plt.plot(ypoints, marker = 'o', ms = 20, mfc = 'r')
plt.show()
```



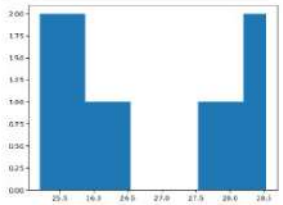
```
xpoints = np.array(df["RollNo"])
ypoints = np.array(df["EDS"])

plt.title("EDS MARKS")

plt.subplot(2, 2, 1)
plt.plot(x,y)

xpoints = np.array(df["RollNo"])
ypoints = np.array(df["DT"])
plt.title("DT MARKS")

plt.subplot(2, 2, 2)
plt.plot(x,y)

xpoints = np.array(df["RollNo"])
ypoints = np.array(df["ET"])

plt.title("ET MARKS")
plt.subplot(2, 2, 3)
plt.plot(x,y)

xpoints = np.array(df["RollNo"])
ypoints = np.array(df["SON"])

plt.title("SON MARKS")
plt.subplot(2, 2, 4)
plt.plot(x,y)
```

```
C:\Users\User\AppData\Local\Temp\ipykernel_17176\3475558857.py:5: MatplotlibDeprecat
axes is deprecated since 3.6 and will be removed two minor releases later; explicit
  plt.subplot(2, 2, 1)
```

```
[<matplotlib.lines.Line2D at 0x217dbf9d0f0>]
```



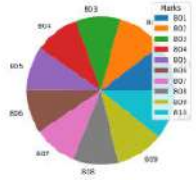
```
In [45]: xx = df["CT"]

         plt.hist(xx)
         plt.show()
```




```
In [46]: y = df["CT"]

         plt.pie(y)
         plt.show()
```

```
In [47]: y = df["CT"].describe()

         plt.pie(y)
         plt.show()
```

```
In [48]: y = df["CT"]
         mylabels = df["Rollno"]

         plt.pie(y, labels = mylabels)
         plt.legend(title = "Marks")
         plt.show()
```




```
In [ ]:
```