

PRACTICAL 5 :-

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ROLL NO:-858

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```
import matplotlib.pyplot as plt
```

```
import pandas as pd
```

```
import numpy as np
```

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

```
fo=open("testmarks1.csv","r")
```

```
data=fo.read()
```

```
lines=data.splitlines()
```

```
x_rolln=[]
```

```
y_eds_marks=[]
```

```
y_son_marks=[]
```

```
y_dt_marks=[]
```

```
y_et_marks=[]
```

```
for l in lines:
```

```
    word=l.split(",")
```

```
    if(word[0].isdigit() or word[1].isdigit()):
```

```
        x_rolln.append(float(word[0]))
```

```
        y_eds_marks.append(float(word[1]))
```

```
        y_son_marks.append(float(word[2]))
```

```
        y_dt_marks.append(float(word[3]))
```

```
        y_et_marks.append(float(word[4]))
```

```
plt.plot(x_rolln,y_eds_marks,color='r')
```

```
plt.xlabel("Roll Number")  
plt.ylabel("Eds Marks")  
plt.title("Mid Sem Marks")  
plt.grid()  
plt.show()
```

```
plt.plot(x_rolln,y_son_marks,color='y')  
plt.xlabel("Roll Number")  
plt.ylabel("SON Marks")  
plt.title("Mid Sem Marks")  
plt.grid()  
plt.show()
```

```
plt.plot(x_rolln,y_dt_marks,color='b')  
plt.xlabel("Roll Number")  
plt.ylabel("DT Marks")  
plt.title("Mid Sem Marks")  
plt.grid()  
plt.show()
```

```
plt.plot(x_rolln,y_et_marks,color='g')  
plt.xlabel("Roll Number")  
plt.ylabel("ET Marks")  
plt.title("Mid Sem Marks")  
plt.grid()  
plt.show()
```

```
plt.bar(x_rolln,y_eds_marks,color='r')  
plt.xlabel("Roll Number")  
plt.ylabel("EDS Marks")  
plt.title("Mid Sem Marks")
```

```
plt.show()
```

```
plt.bar(x_rolIn,y_son_marks,color='y')
```

```
plt.xlabel("Roll Number")
```

```
plt.ylabel("SON Marks")
```

```
plt.title("Mid Sem Marks")
```

```
plt.show()
```

```
plt.bar(x_rolIn,y_dt_marks,color='b')
```

```
plt.xlabel("Roll Number")
```

```
plt.ylabel("DT Marks")
```

```
plt.title("Mid Sem Marks")
```

```
plt.show()
```

```
plt.bar(x_rolIn,y_et_marks,color='g')
```

```
plt.xlabel("Roll Number")
```

```
plt.ylabel("ET Marks")
```

```
plt.title("Mid Sem Marks")
```

```
plt.show()
```

```
plt.scatter(x_rolIn,y_son_marks,color='b')
```

```
plt.xlabel="Roll Number")
```

```
plt.ylabel="Son Marks")
```

```
plt.grid()
```

```
plt.show()
```





