

Name: Atharva Rahul Sadafale

Roll No: 553

PRN: 202201070048

Subject: EDS

```
import matplotlib.pyplot as plt
import numpy as np
import pandas as pd
df=pd.read_csv('/content/testmarks1.csv')
print(df)
r_no=[]
foc_mrk=[]
eds_mrk=[]
son_mrk=[]
phy_mrk=[]
sub=['foc','eds','son','phy']
r_no=np.array(df['RollNO'])
foc_mrk=np.array(df['FOC'])
eds_mrk=np.array(df['EDS'])
son_mrk=np.array(df['SON'])
phy_mrk=np.array(df['PHY'])
max_mrk=[]
min_mrk=[]
avg_mrk=[]

max_mrk.append(max(foc_mrk))
max_mrk.append(max(eds_mrk))
max_mrk.append(max(son_mrk))
max_mrk.append(max(phy_mrk))
min_mrk.append(min(foc_mrk))
min_mrk.append(min(eds_mrk))
min_mrk.append(min(son_mrk))
min_mrk.append(min(phy_mrk))
avg_mrk.append(sum(foc_mrk)/10)
avg_mrk.append(sum(eds_mrk)/10)
avg_mrk.append(sum(son_mrk)/10)
avg_mrk.append(sum(phy_mrk)/10)

mo803=[foc_mrk[2],eds_mrk[2],son_mrk[2],phy_mrk[2]]
mo804=[foc_mrk[3],eds_mrk[3],son_mrk[3],phy_mrk[3]]
mo805=[foc_mrk[4],eds_mrk[4],son_mrk[4],phy_mrk[4]]
```

```
print(max_mrk,min_mrk,avg_mrk)
```

```
plt.xlabel("Roll No")  
plt.ylabel("Marks")  
plt.title("FOC marks")  
plt.plot(r_no,foc_mrk,'o-r')  
plt.show()
```

```
plt.xlabel("Roll No")  
plt.ylabel("Marks")  
plt.title("EDS marks")  
plt.bar(r_no,eds_mrk)  
plt.show()
```

```
plt.xlabel("Roll No")  
plt.ylabel("Marks")  
plt.title("SON marks")  
plt.barh(r_no,son_mrk,color='hotpink')  
plt.show()
```

```
plt.xlabel("Roll No")  
plt.ylabel("Marks")  
plt.title("PHY marks")  
plt.plot(r_no,phy_mrk,'o:g')  
plt.show()
```

```
plt.xlabel("Roll No")  
plt.ylabel("Marks")  
plt.title("MAX marks")  
plt.bar(sub,max_mrk,color='green')  
plt.show()
```

```
plt.xlabel("Roll No")  
plt.ylabel("Marks")  
plt.title("MIN marks")  
plt.plot(min_mrk,'o:y')  
plt.show()
```

```
plt.xlabel("Roll No")  
plt.ylabel("Marks")
```

```
plt.title("AVG marks")
plt.plot(avg_mrk,'o:b')
plt.show()

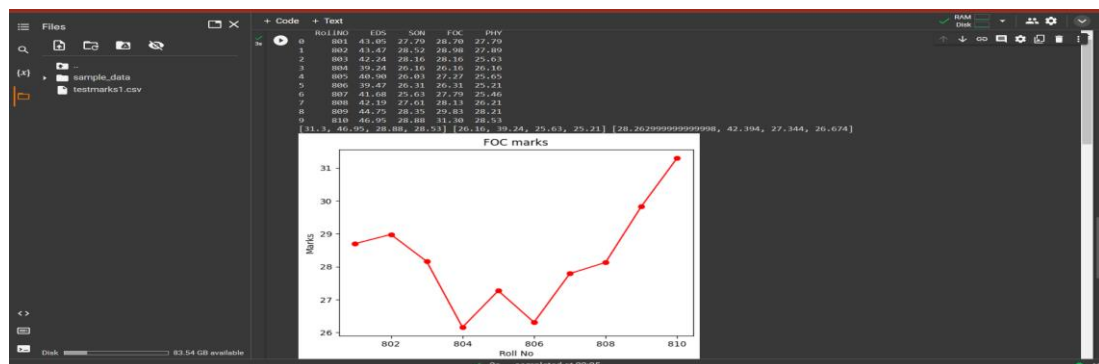
plt.xlabel('roll no 803 marks')
plt.pie(mo803,labels=sub)
plt.show()

plt.xlabel('roll no 804 marks')
expl=[0.3,0,0,0]
plt.pie(mo804,labels=sub,explode=explode)
plt.show()

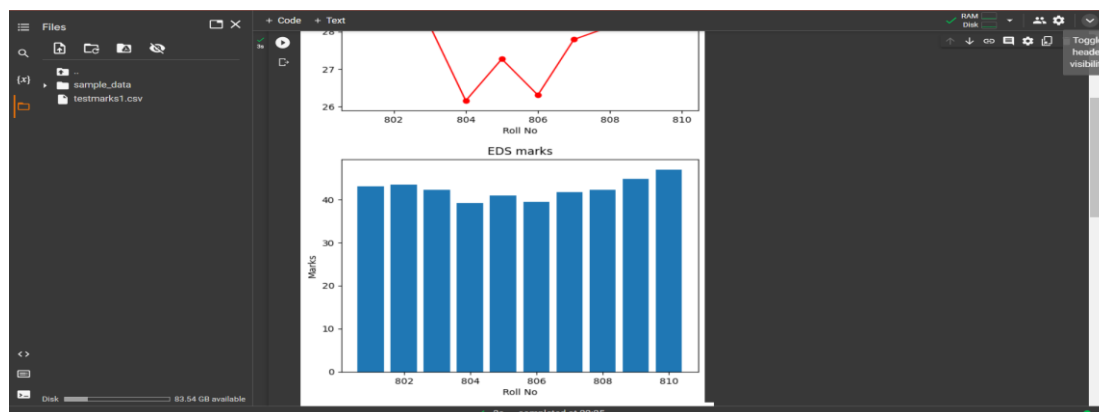
plt.xlabel('roll no 805 marks')
expl2=[0,0.2,0,0]
plt.pie(mo805,labels=sub,explode=explode,shadow=True)
plt.show()
```

Result:

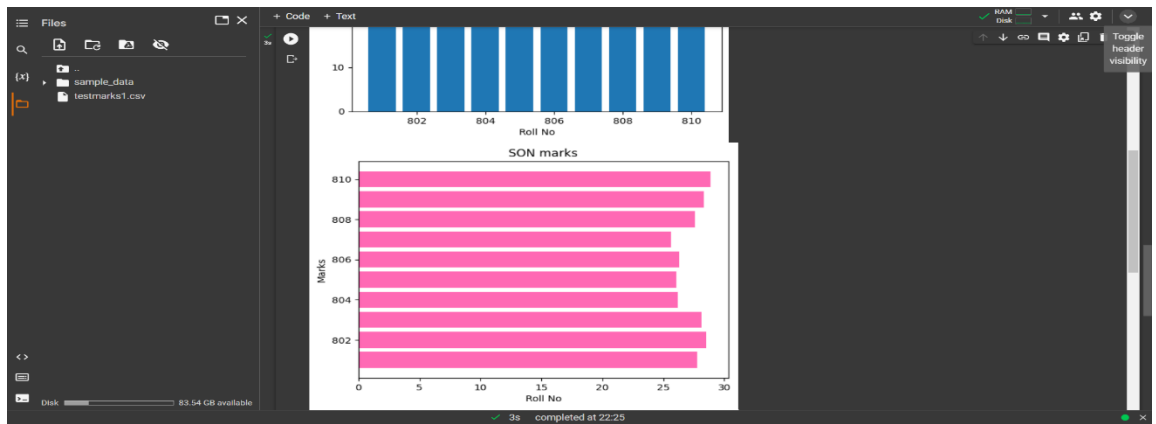
1]



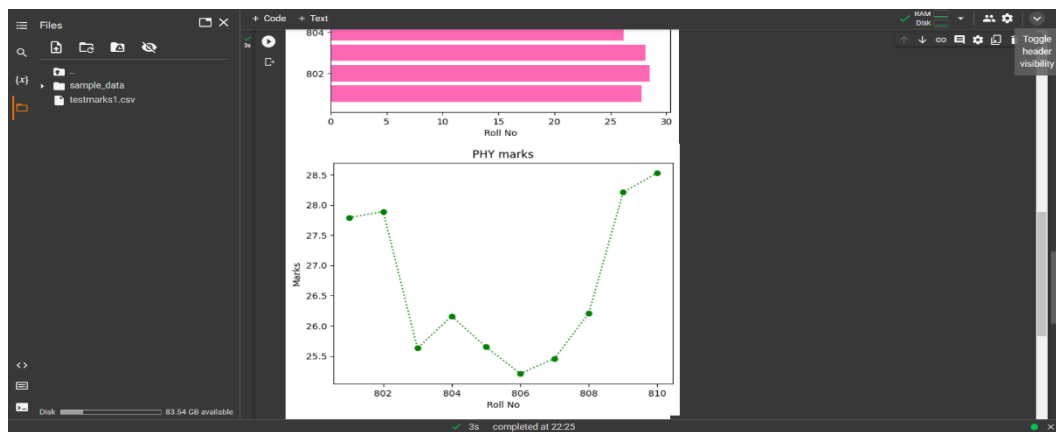
2]



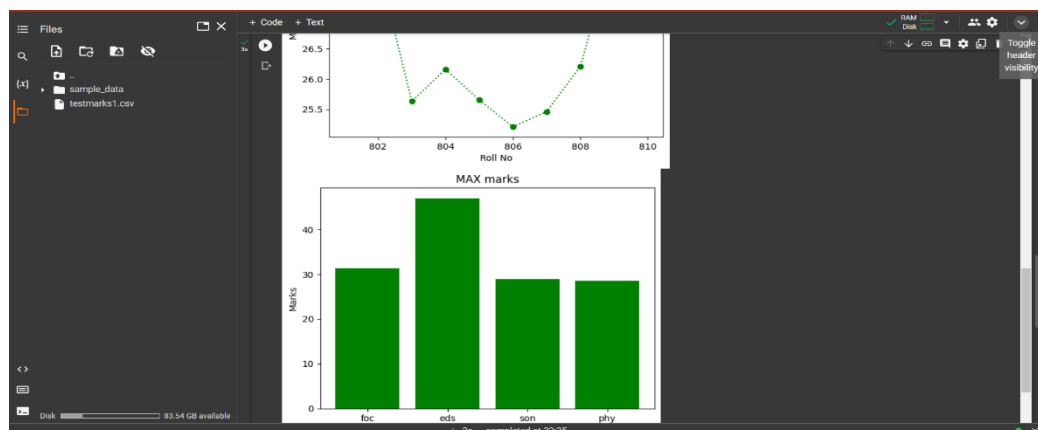
3]



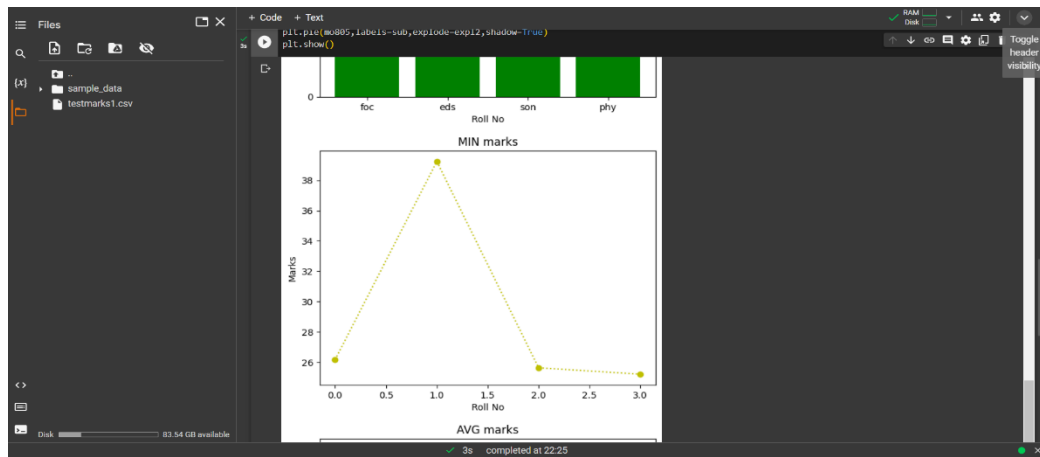
4]



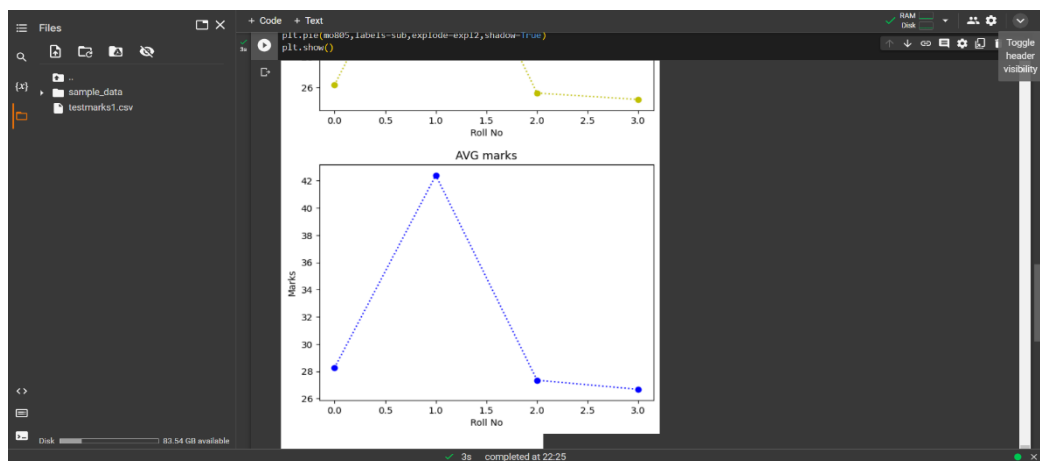
5]



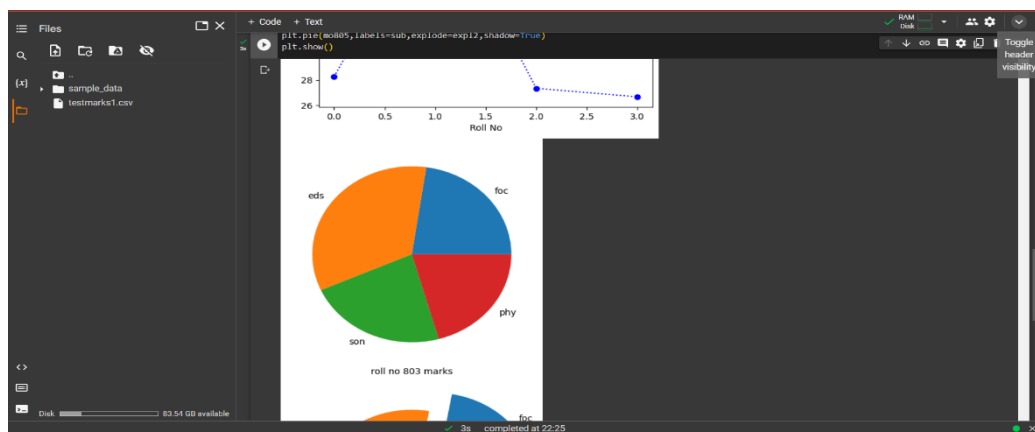
6]



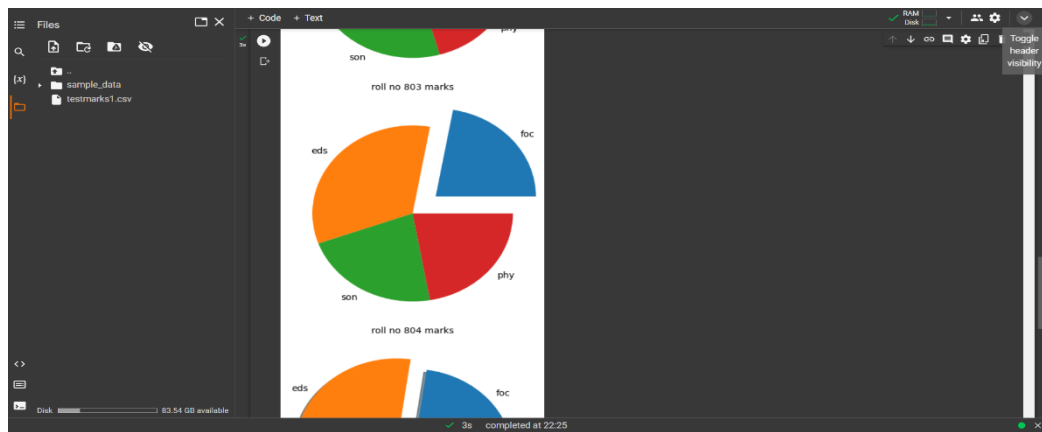
7]



8]



9]



10]

