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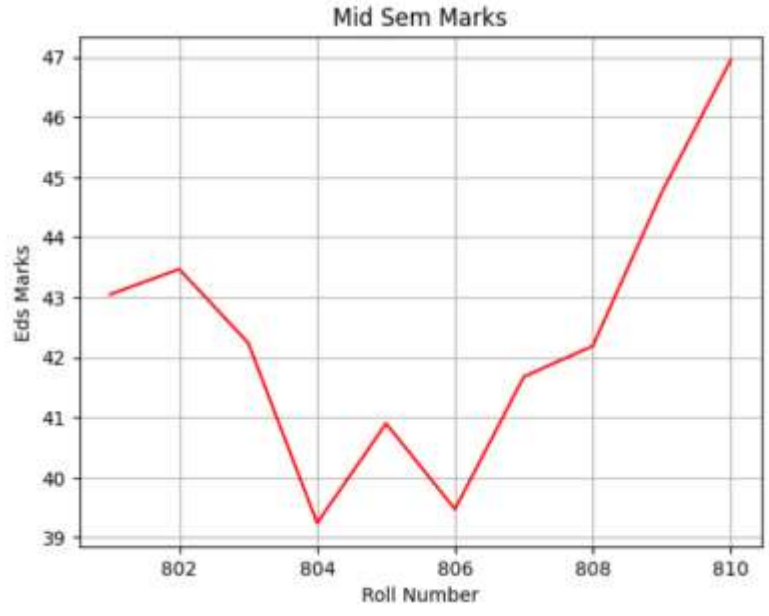
Division – H1

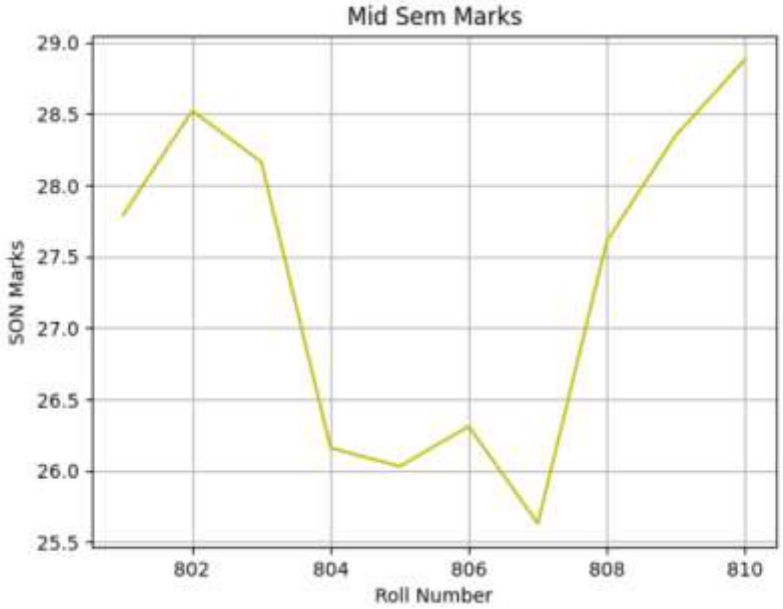
Code – 1st Graph

```
import matplotlib.pyplot as plt
import pandas as pd
import numpy as np
df=pd.read_csv("test1.csv")


fo=open("test1.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(int(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()
```



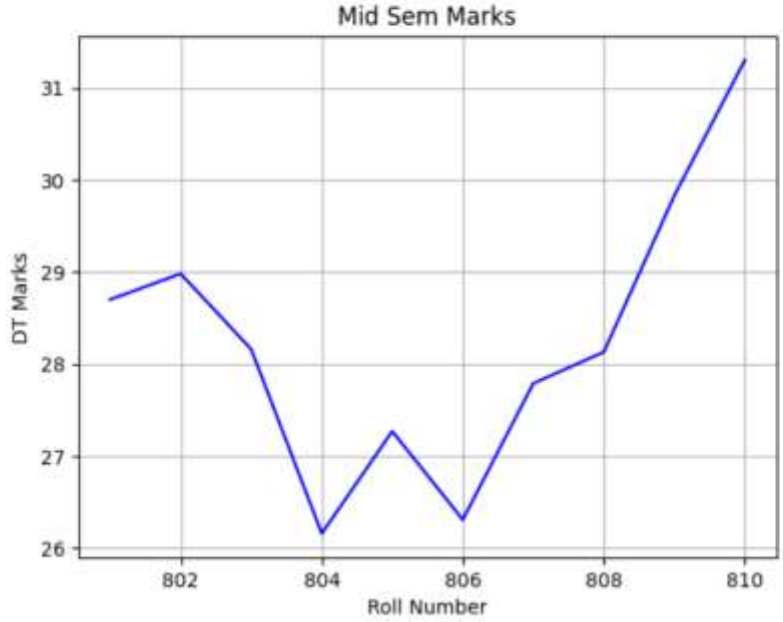
2nd Graph

```
In [2]: 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()
```



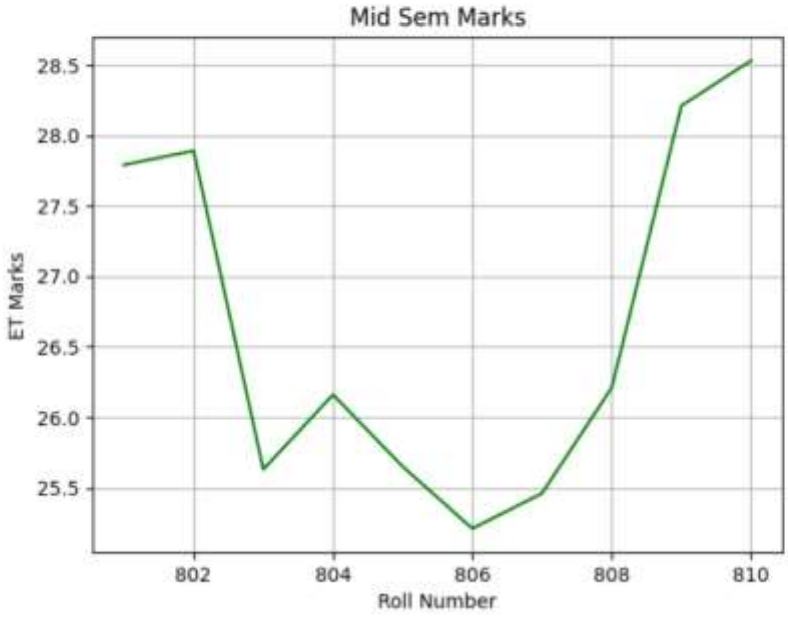
3rd Graph –

```
In [3]: 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()
```



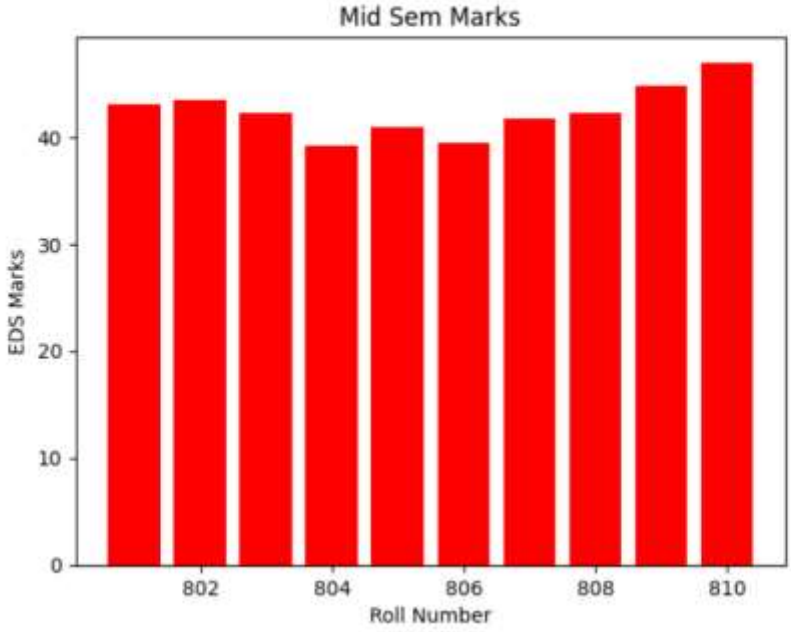
4th Graph –

```
In [4]: 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()
```



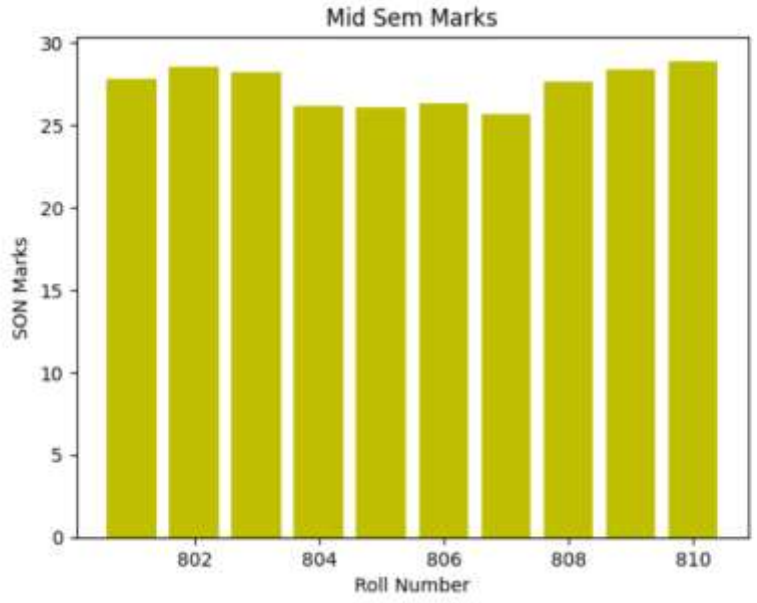
5th Graph –

```
In [5]: plt.bar(x_rolln,y_eds_marks,color='r')
        plt.xlabel("Roll Number")
        plt.ylabel("EDS Marks")
        plt.title("Mid Sem Marks")
        plt.show()
```



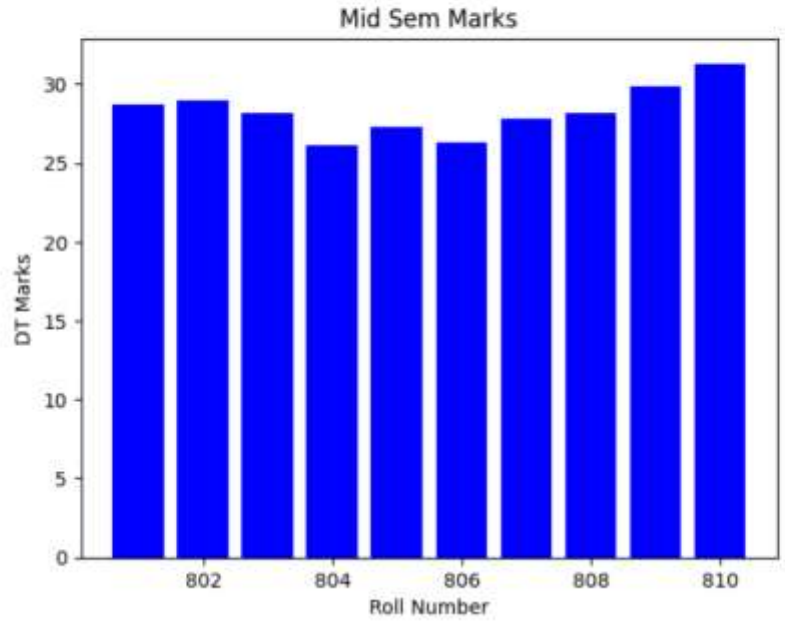
6th Graph –

```
In [6]: plt.bar(x_rolln,y_son_marks,color='y')
        plt.xlabel("Roll Number")
        plt.ylabel("SON Marks")
        plt.title("Mid Sem Marks")
        plt.show()
```



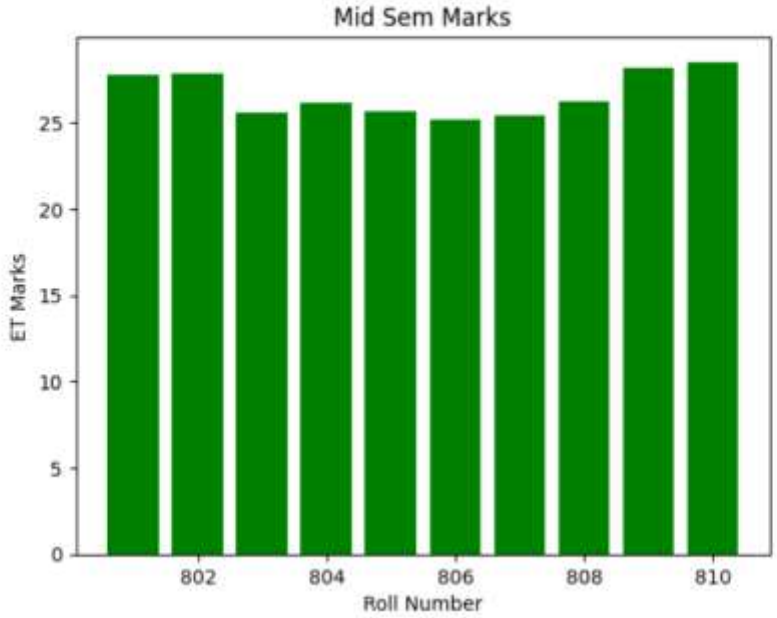
7th Graph –

```
In [7]: plt.bar(x_rolln,y_dt_marks,color='b')
        plt.xlabel("Roll Number")
        plt.ylabel("DT Marks")
        plt.title("Mid Sem Marks")
        plt.show()
```



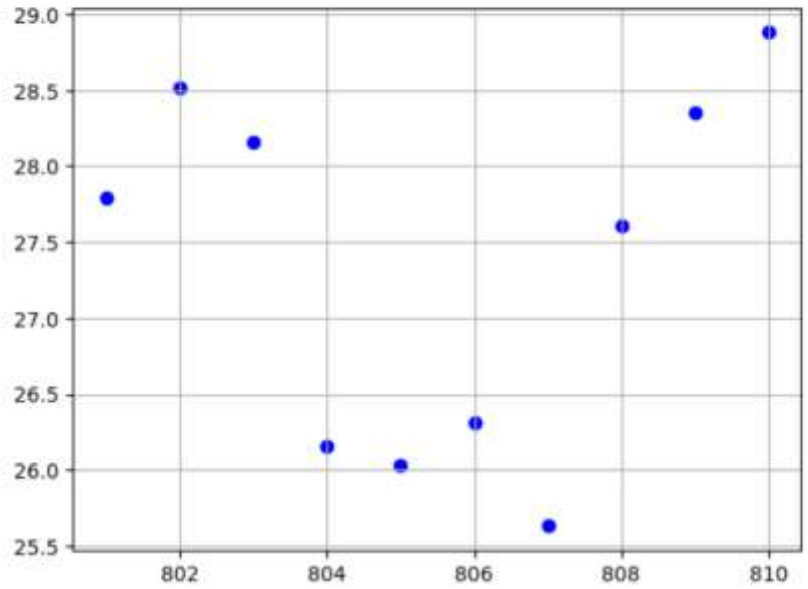
8th Graph –

```
In [8]: plt.bar(x_rolln,y_et_marks,color='g')
        plt.xlabel("Roll Number")
        plt.ylabel("ET Marks")
        plt.title("Mid Sem Marks")
        plt.show()
```



9th Graph –

```
In [9]: plt.scatter(x_rolln,y_son_marks,color='b')
        plt.xlabel=("Roll Number")
        plt.ylabel=("Son Marks")
        plt.grid()
        plt.show()
```



10th Graph –

```
In [16]: plt.scatter(x_rolln,y_et_marks,color='b')
         plt.ylabel=("Son Marks")
         plt.grid()
         plt.show()
```