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Assignment.ipynb

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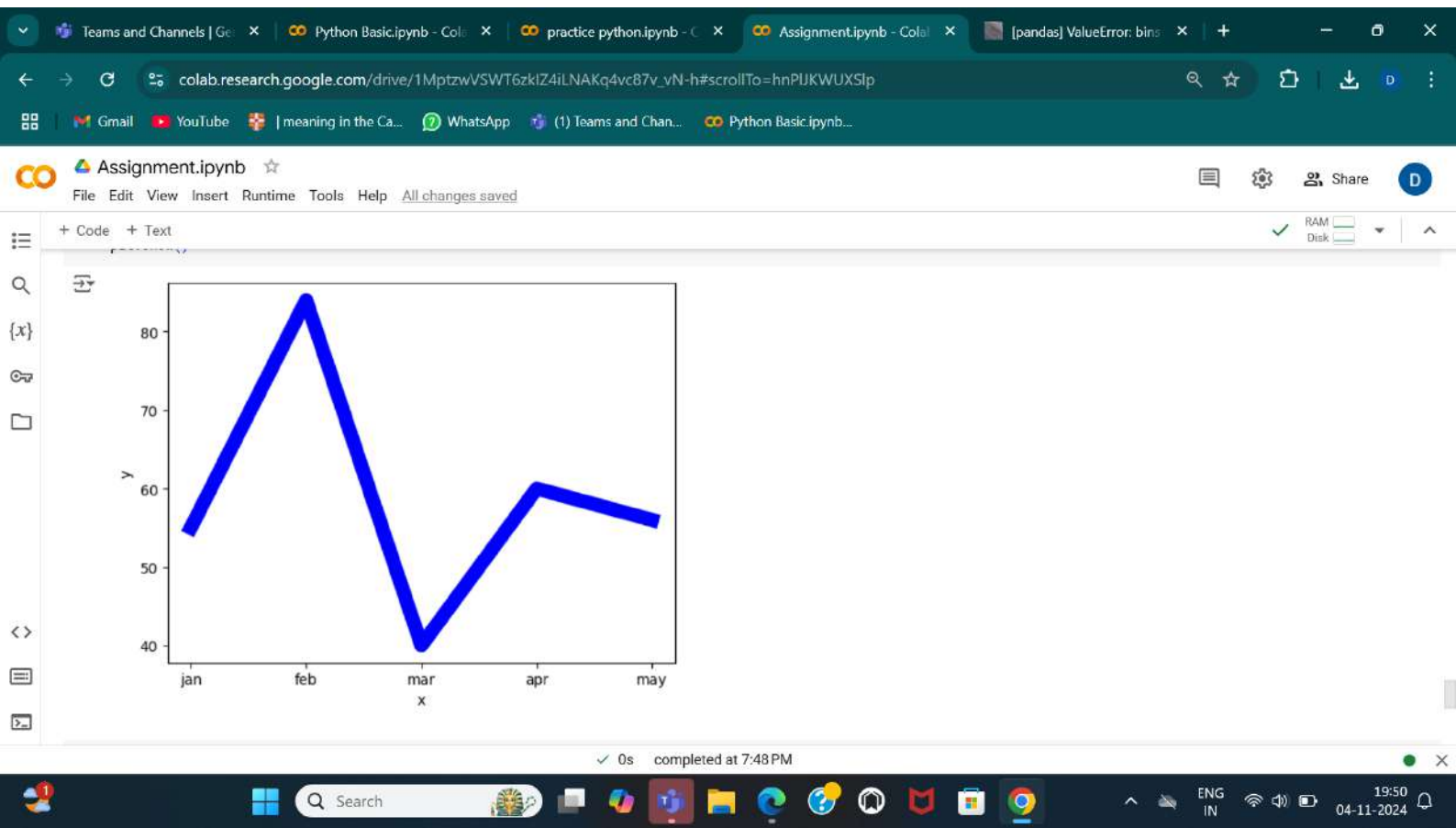
0 100000 200000 300000 400000 500000 600000 700000 orbital_period

```
import matplotlib.pyplot as plt
a=['jan','feb','mar','apr','may']
b=[55,84,40,60,56]
plt.plot(a,b,color='blue',linewidth=10)
plt.xlabel('x')
plt.ylabel('y')
plt.show()
```

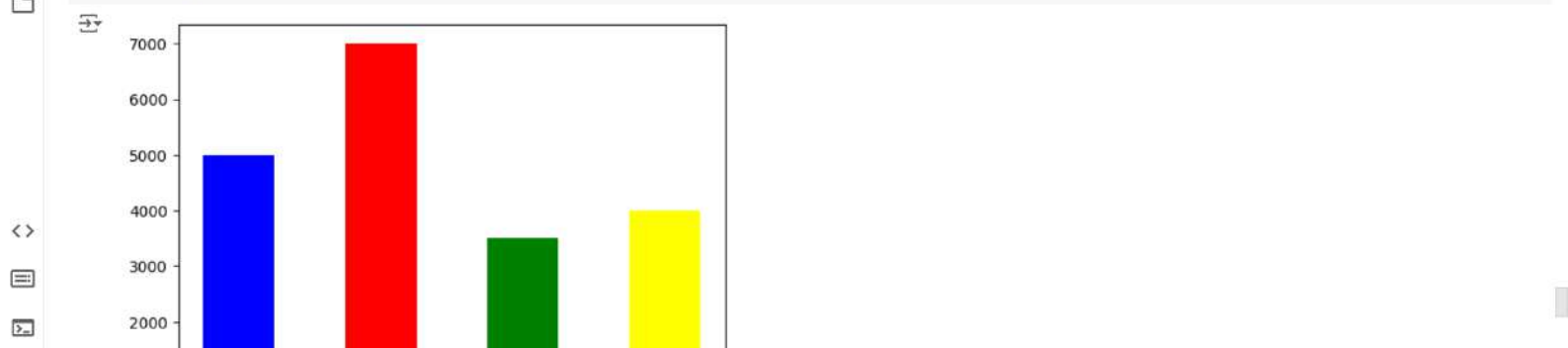
80 70 60 y

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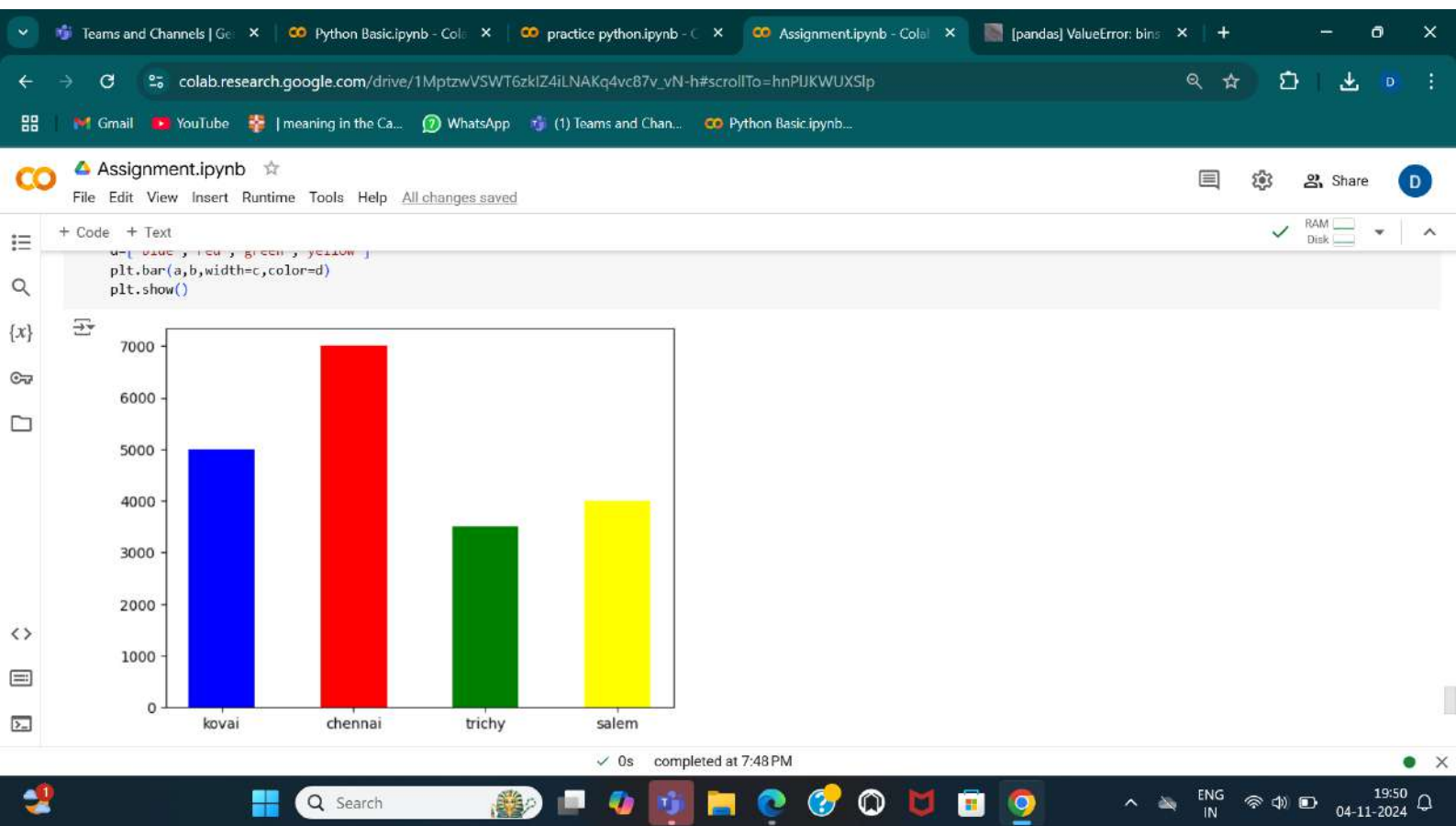
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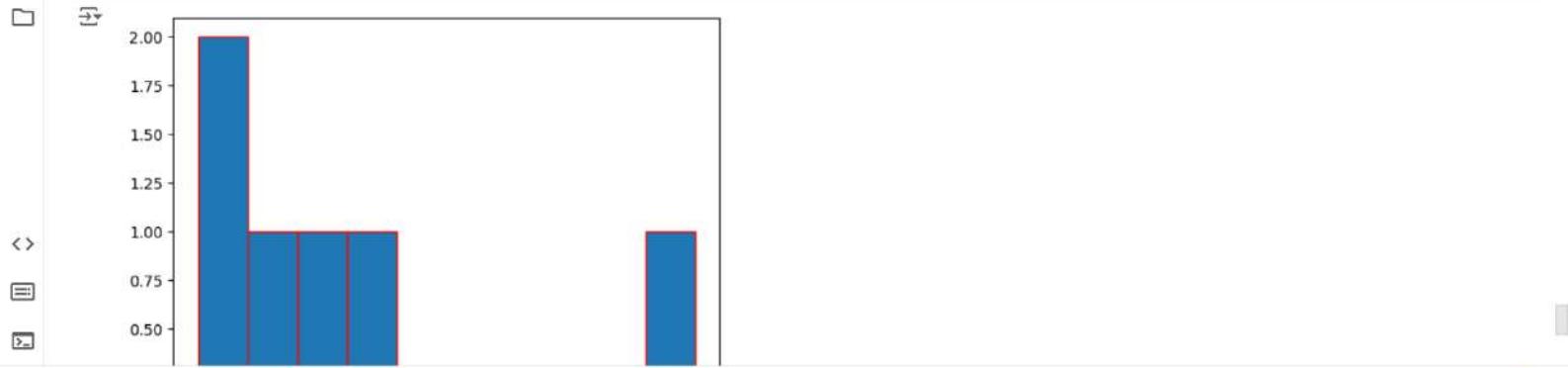
```
a=['kovai','chennai','trichy','salem']  
b=[5000,7000,3500,4000]  
c=0.5  
d=['blue','red','green','yellow']  
plt.bar(a,b,width=c,color=d)  
plt.show()
```



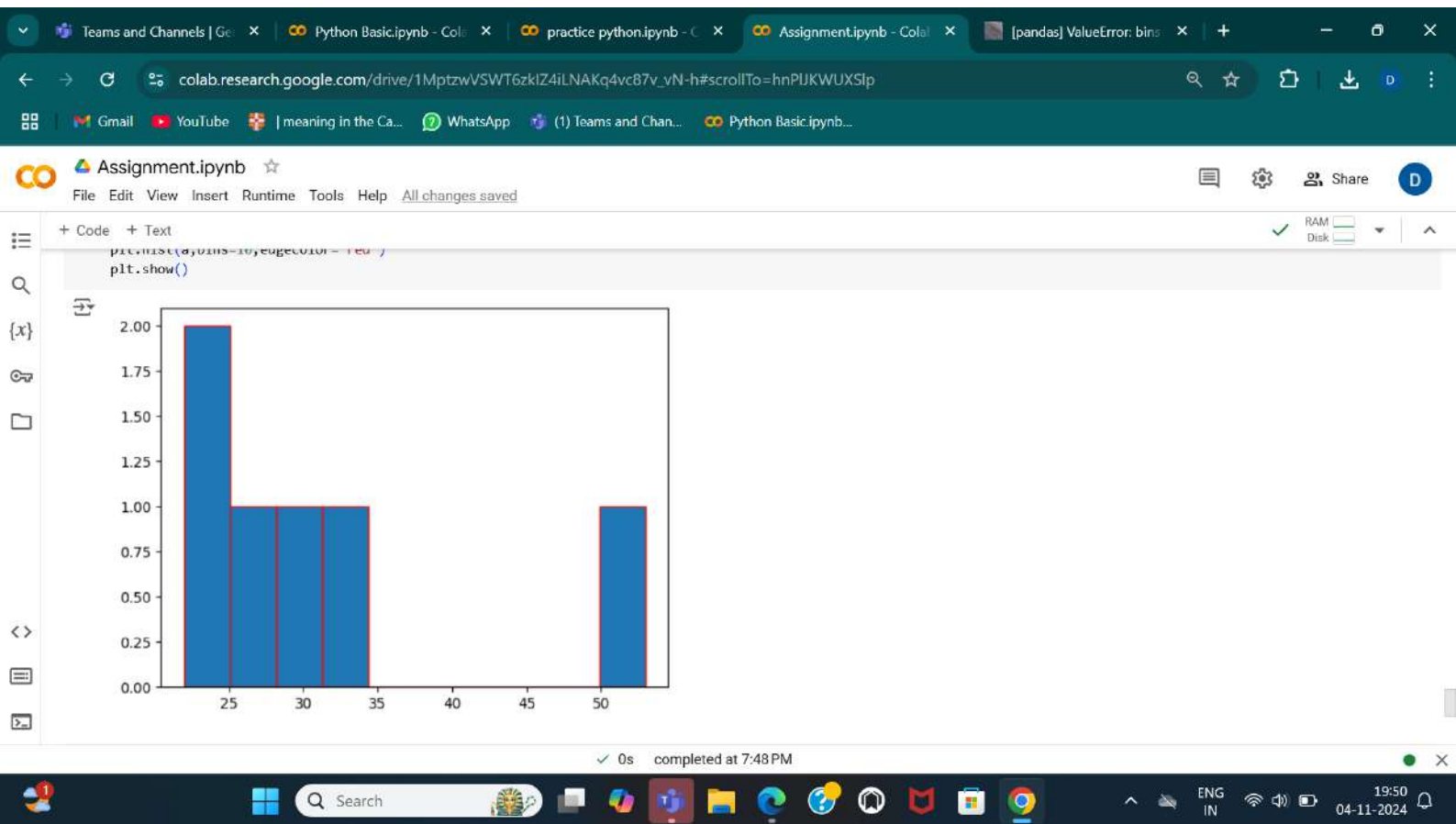
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```
import numpy as np
a=[22,33,24,53,27,30]
plt.hist(a,bins=10,edgecolor='red')
plt.show()
```



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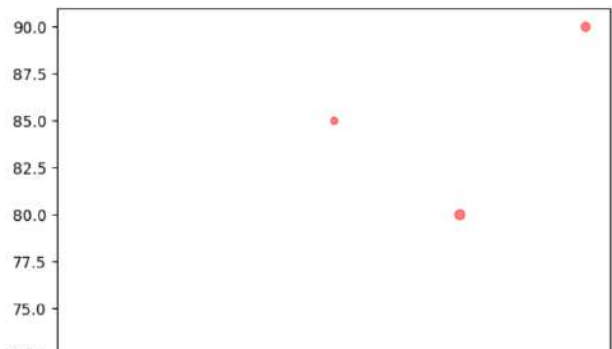
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```
a=[4,6,8,7]
b=[70,85,90,80]
c=[10,20,30,40]
plt.scatter(a,b,color='red',alpha=0.5,sizes=c)
plt.show()
```



a	b	c
4	70	10
6	85	20
8	90	30
7	80	40

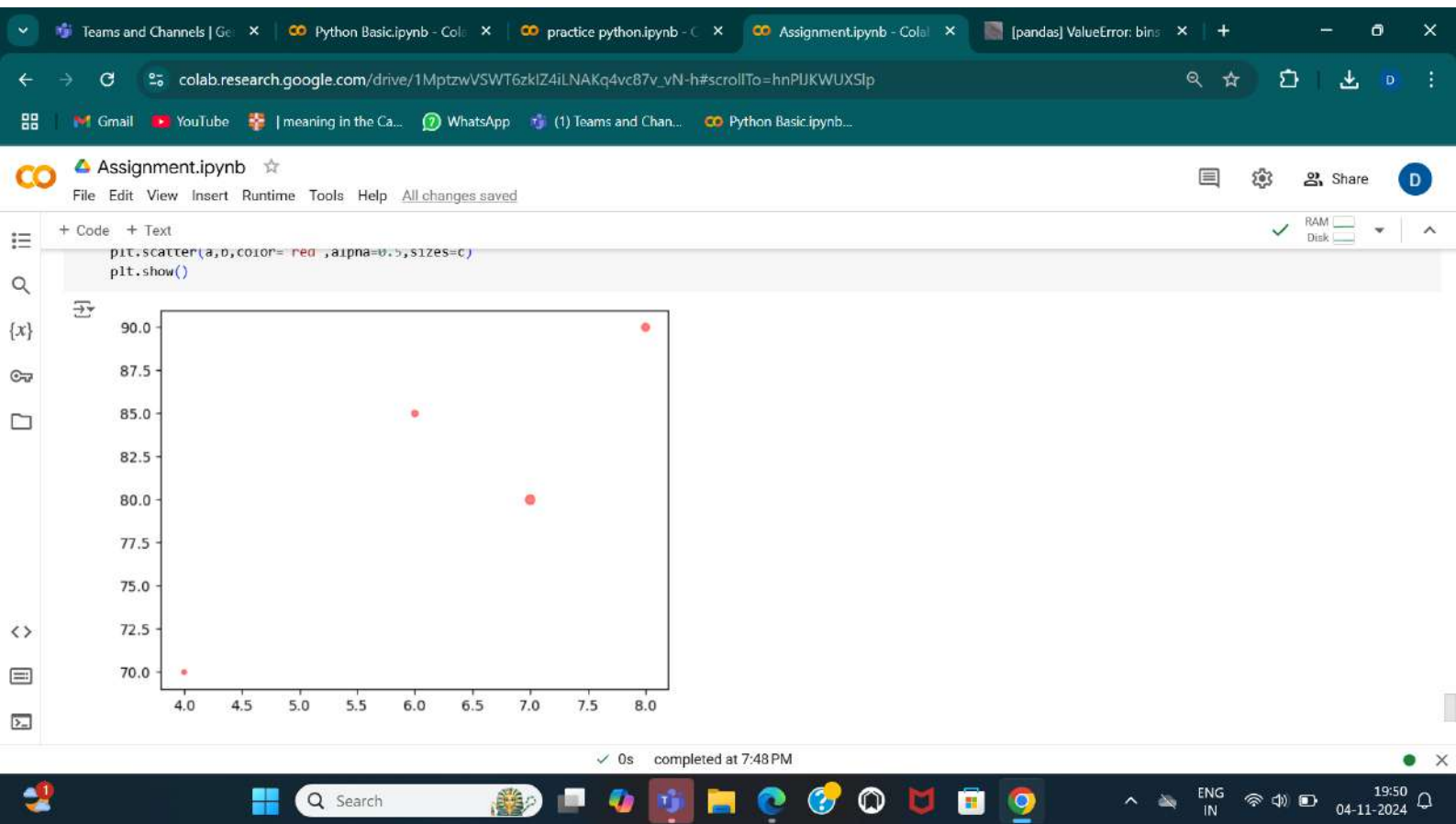
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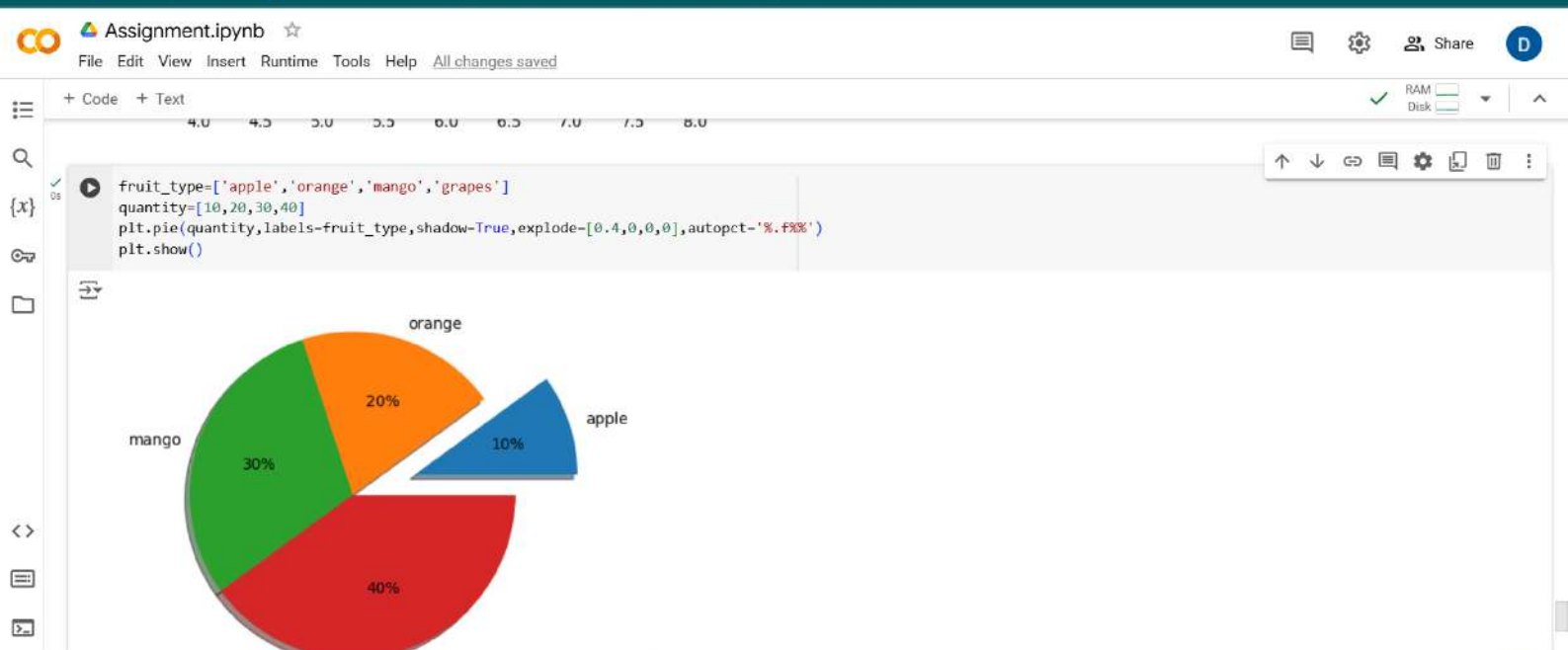
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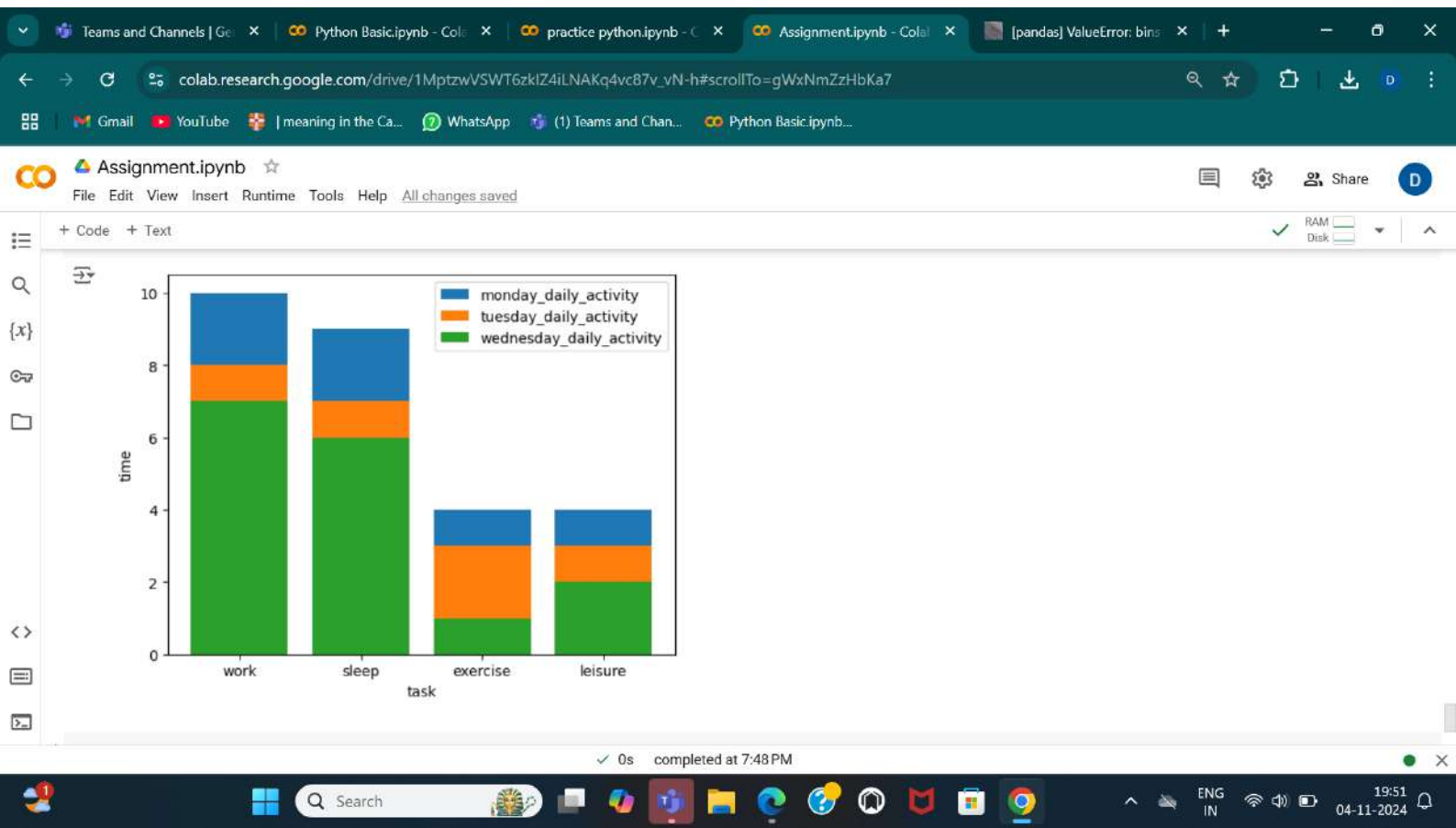
grapes

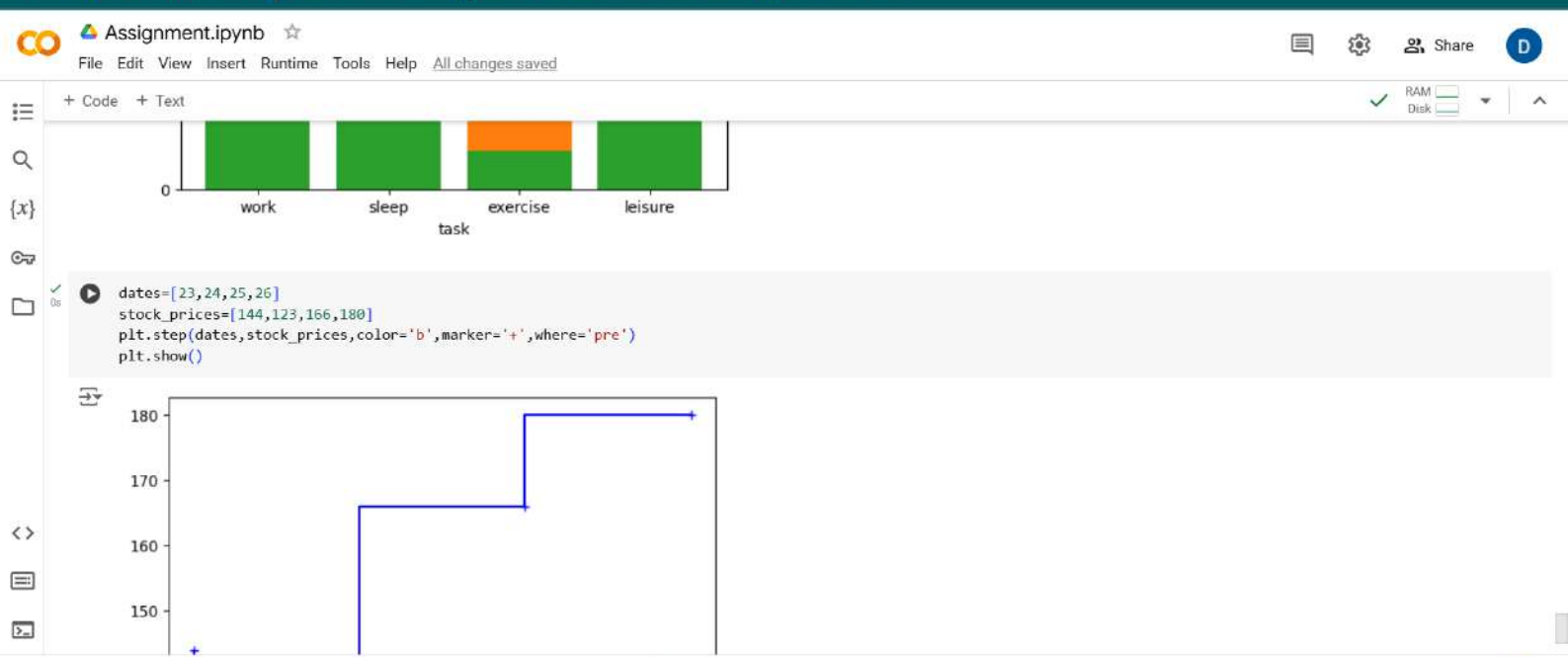
```
task=['work','sleep','exercise','leisure']
mon=[10,9,4,4]
tue=[8,7,3,3]
wed=[7,6,1,2]
plt.bar(task,mon,label='monday_daily_activity')
plt.bar(task,tue,label='tuesday_daily_activity')
plt.bar(task,wed,label='wednesday_daily_activity')
plt.xlabel('task')
plt.ylabel('time')
plt.legend()
plt.show()
```

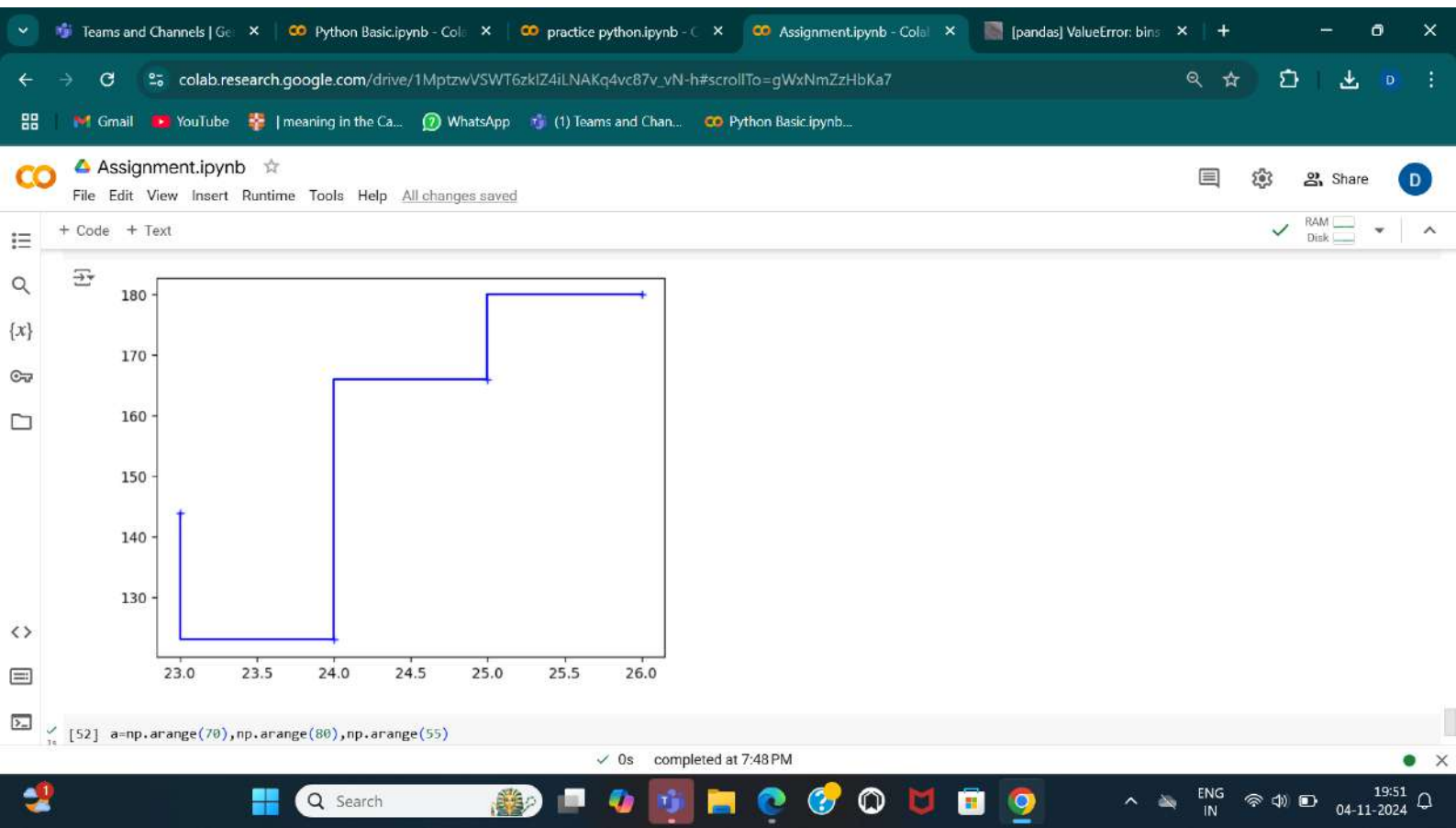
monday_daily_activity
tuesday_daily_activity
wednesday_daily_activity

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130

23.0 23.5 24.0 24.5 25.0 25.5 26.0

```
a=np.arange(70),np.arange(80),np.arange(55)
plt.boxplot(a,labels=['X_Class','XI_Class','XII_Class'])
plt.xlabel('classes')
plt.ylabel('scores')
plt.show()
```

80

70

60

50

40

30

scores

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