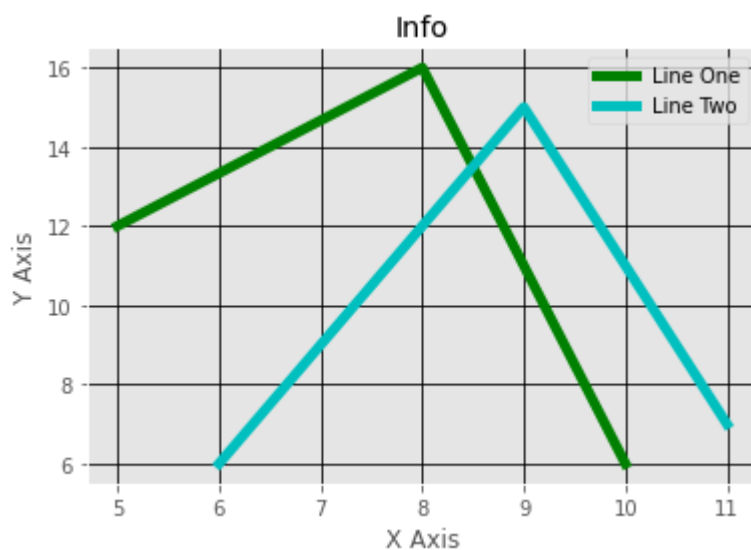
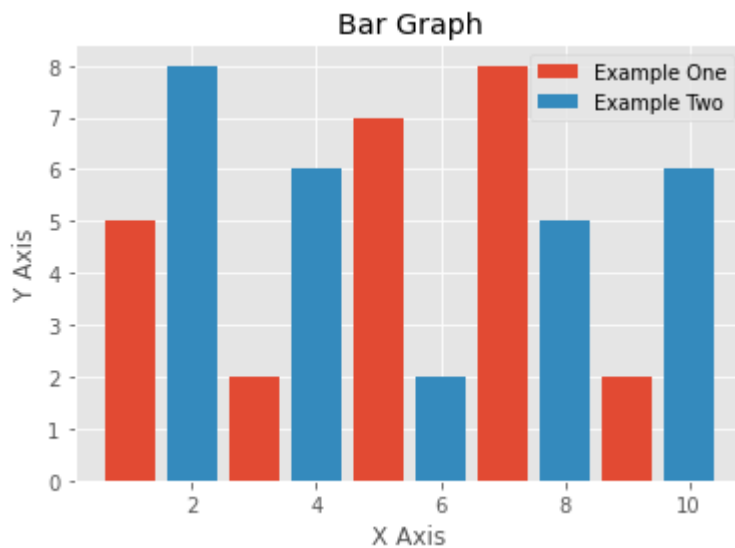


```
In [1]: import matplotlib.pyplot as plt
```

```
In [4]: # GENERATE A LINE GRAPH
from matplotlib import style
style.use('ggplot')
x = [5,8,10]
y = [12,16,6]
x2 = [6,9,11]
y2 = [6,15,7]
plt.plot(x,y,'g',label='Line One',linewidth=5)
plt.plot(x2,y2,'c',label='Line Two',linewidth=5)
plt.title('Info')
plt.xlabel('X Axis')
plt.ylabel('Y Axis')
plt.legend()
plt.grid(True,color='k')
plt.show()
```

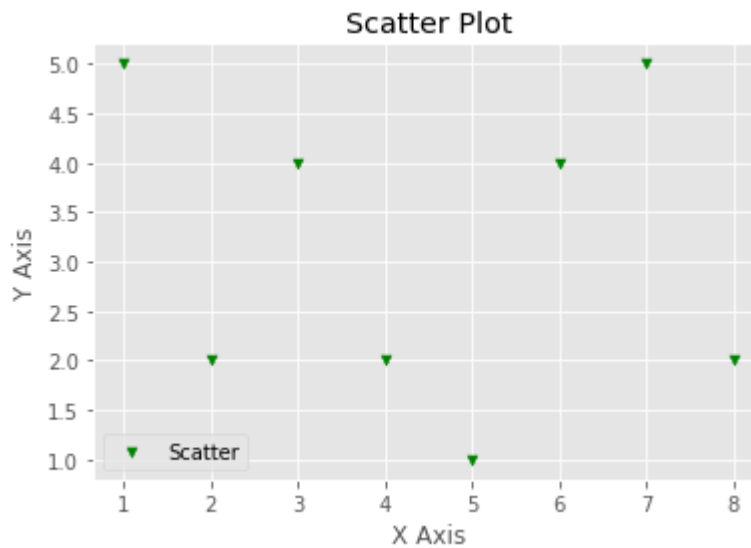


```
In [5]: # GENERATE A BAR GRAPH
plt.bar([1,3,5,7,9],[5,2,7,8,2],label='Example One')
plt.bar([2,4,6,8,10],[8,6,2,5,6],label='Example Two')
plt.legend()
plt.title('Bar Graph')
plt.xlabel('X Axis')
plt.ylabel('Y Axis')
plt.show()
```



In [6]:

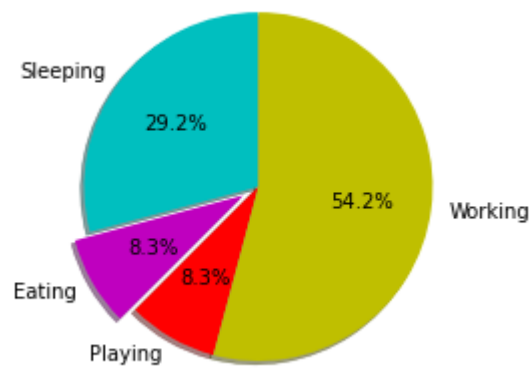
```
# SCATTER PLOT
x = [1,2,3,4,5,6,7,8]
y = [5,2,4,2,1,4,5,2]
plt.scatter(x,y,label='Scatter',color='g',
            s=25,marker='v')
plt.title('Scatter Plot')
plt.xlabel('X Axis')
plt.ylabel('Y Axis')
plt.legend()
plt.show()
```



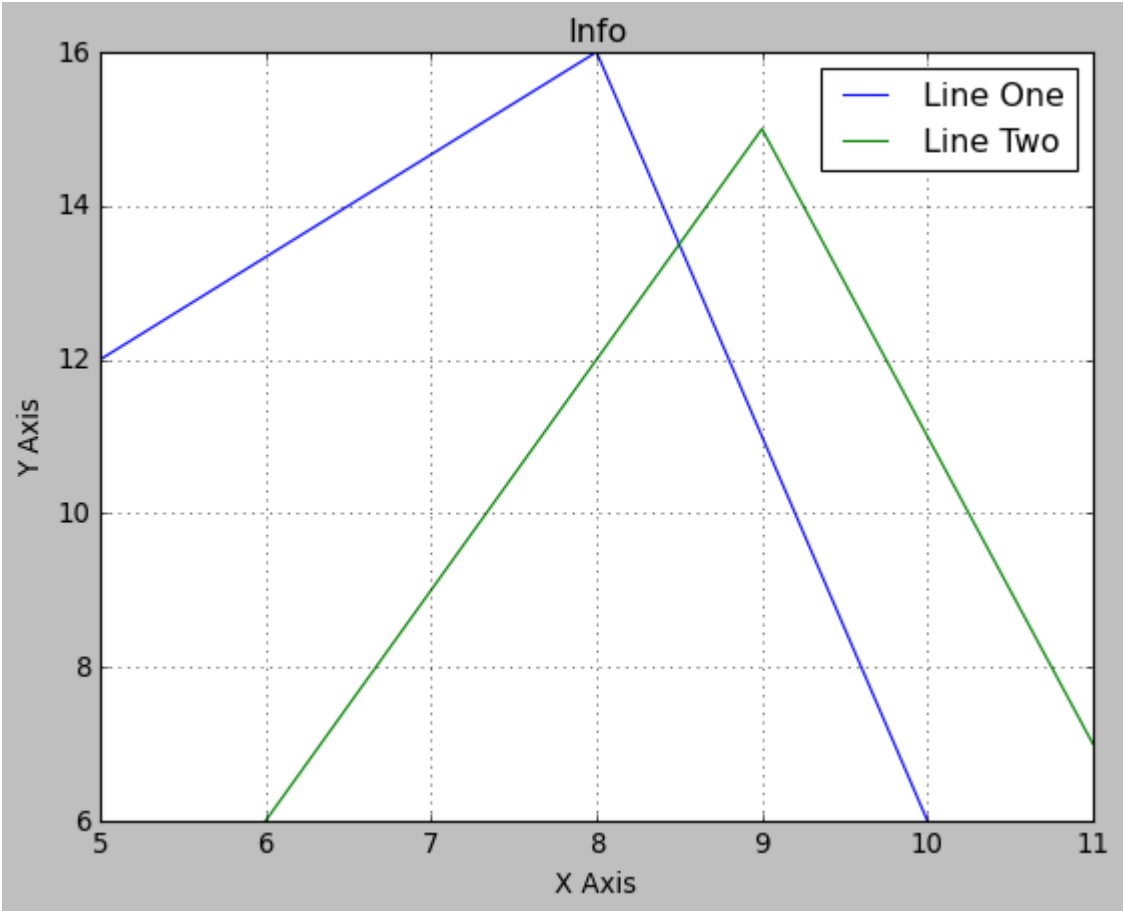
In [8]:

```
#PIE CHART
slices = [7,2,2,13]
activities = ['Sleeping','Eating','Playing','Working']
cols = ['c','m','r','y']
plt.pie(slices,
        labels = activities,
        colors = cols,
        startangle = 90,
        shadow = True,
        explode = (0,0.1,0,0),
```

```
autopct = '%1.1f%%')  
plt.show()
```



```
In [10]: # USING DIFFERENT STYLE  
from matplotlib import style  
style.use('classic')  
x = [5,8,10]  
y = [12,16,6]  
x2 = [6,9,11]  
y2 = [6,15,7]  
plt.plot(x,y,label='Line One')  
plt.plot(x2,y2,label='Line Two')  
plt.title('Info')  
plt.xlabel('X Axis')  
plt.ylabel('Y Axis')  
plt.legend()  
plt.grid(True)  
plt.show()
```



```
In [12]: import pandas as pd
df = pd.read_csv('C:\\Users\\Apeh\\Desktop\\CODE\\DATASET\\Grade_Set_1.csv')
df
```

Out[12]:

	Hours_Studied	Test_Grade	Status	Result
0	2	57	fail	D
1	3	66	fail	D
2	4	73	pass	C
3	5	76	pass	C
4	6	79	pass	C
5	7	81	pass	B
6	8	90	pass	B
7	9	96	pass	A
8	10	100	pass	A

```
In [13]: from matplotlib import style
style.use('dark_background')
```

```
In [14]: plt.scatter(df.Hours_Studied,df.Test_Grade,color='red')
plt.plot(df.Hours_Studied,df.Test_Grade,color='green',label='Loaded from URL')
```

```
plt.xlabel('Hours')  
plt.ylabel('Marks')  
plt.title('Student Grade Pradiction')  
plt.legend()  
plt.grid(True)  
plt.show()
```

