

```
from matplotlib import pyplot as plt
```

Recommended to use when we have 5 or less values to plot

✓ 1. Plotting the Pie Chart

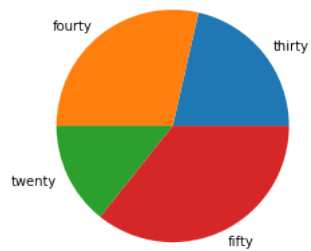
```
slices = [30, 40, 20, 50] #sum needs not be 100
```

```
plt.pie(slices)  
plt.show()
```



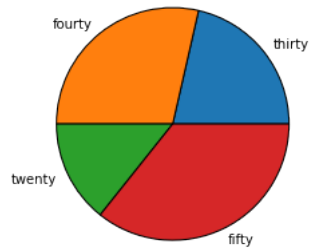
✓ 2. Adding labels to the pie chart

```
labels = ['thirty', 'fourty', 'twenty', 'fifty']  
plt.pie(slices, labels=labels)  
plt.show()
```



✓ 3. setting edge color

```
plt.pie(slices, labels=labels, wedgeprops={'edgecolor':'black'})  
plt.show()
```

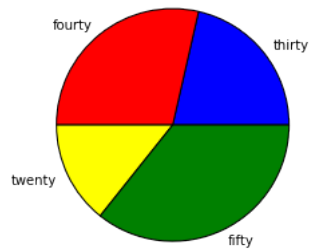


✓ 4. setting color of the slices

```
color = ['blue','red','yellow','green']
```

#hexadecimal color codes can also be used

```
plt.pie(slices, labels=labels, colors=color, wedgeprops={'edgecolor':'black'})  
plt.show()
```

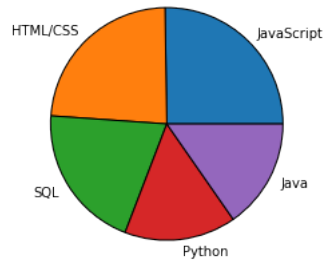


✓ 5. plotting real world data

```
labels = ['JavaScript', 'HTML/CSS', 'SQL', 'Python', 'Java']
```

```
slices = [59219, 55466, 47544, 36443, 35917]
```

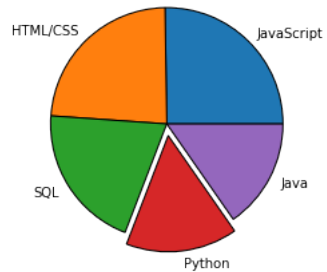
```
plt.pie(slices, labels=labels, wedgeprops={'edgecolor':'black'})  
plt.show()
```



6. Exploding the slice

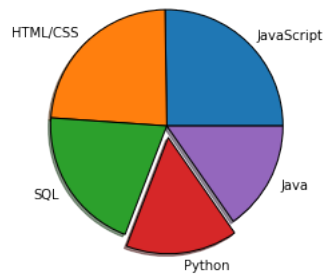
```
explode = [0, 0, 0, 0.1, 0]
```

```
plt.pie(slices, labels=labels, explode=explode, wedgeprops={'edgecolor':'black'})  
plt.show()
```



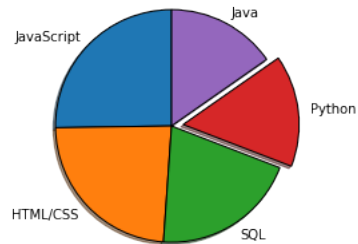
7. adding shadow to the chart

```
plt.pie(slices, labels=labels, explode=explode, shadow=True, wedgeprops={'edgecolor':'black'})  
plt.show()
```



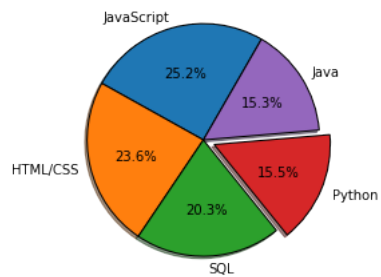
8. setting the starting angle

```
plt.pie(slices, labels=labels, explode=explode, shadow=True, startangle=90, wedgeprops={'edgecolor':'black'})
plt.show()
```



9. displaying percentage of each slices

```
plt.pie(slices, labels=labels, explode=explode, shadow=True, startangle=60, autopct="%0.1f%%", wedgeprops={'edgecolor':'black'})
plt.show()
```



Show Your Creativity

Covid 19 India Data as on 5th Sept 2020

```
import matplotlib.pyplot as plt
import pandas as pd
```

```
from google.colab import drive
drive.mount('/content/drive')
```

Go to this URL in a browser: https://accounts.google.com/o/oauth2/auth?client_id=947318989803-6bn6qk8qdgf4n4g3pfee6491hc0brc4i.apps.googleusercontent.com&redirect_uri=urn%3aietf%3awg%3aoauth%3a2.f

Enter your authorization code:

.....

Mounted at /content/drive

```
data = pd.read_csv('/content/drive/My Drive/data/Covid_19.csv')
```

```
data.head()
```

	State	last_updated	population	tested__last_updated	total__confirmed	total__deceased	total__recovered	total__tested
0	AN	2020-09-05T22:09:31+05:30	397000	9/4/2020	3292	50.0	2904	37825
1	AP	2020-09-05T20:15:29+05:30	52221000	9/5/2020	487331	4347.0	382104	4035317
2	AR	2020-09-06T00:53:37+05:30	1504000	9/5/2020	4914	8.0	3381	183390
3	AS	2020-09-05T22:39:27+05:30	34293000	9/5/2020	123923	352.0	95061	2471274
4	BR	2020-09-05T18:43:27+05:30	119520000	9/5/2020	145861	750.0	128376	3871733