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

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

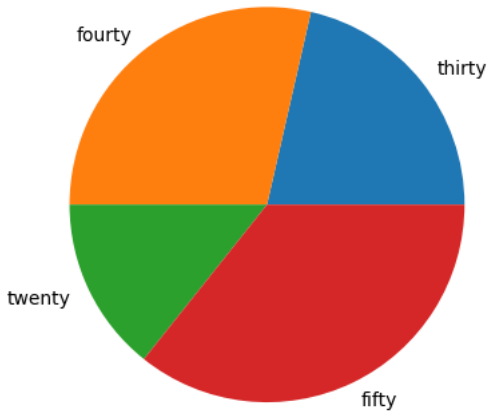
1. Plotting the Pie Chart

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

```
import matplotlib.pyplot as plt
plt.pie(slices)
plt.show()
```

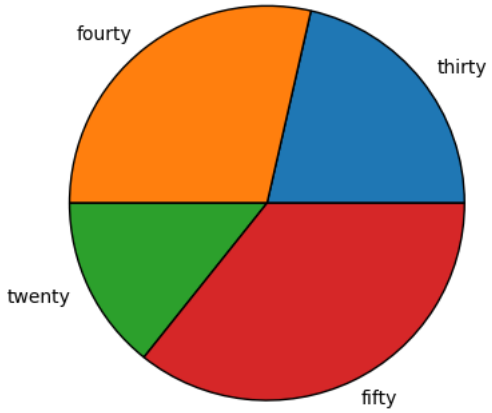
2. Adding labels to the pie chart

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



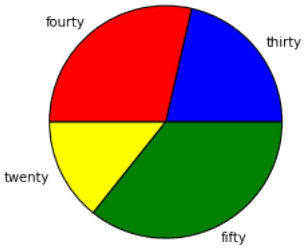
3. setting edge color

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



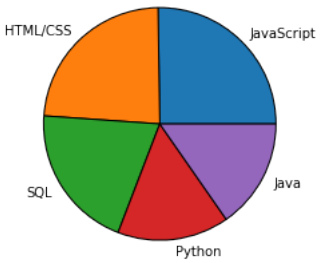
4. setting color of the slices

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

#hexadecimal color codes can also be used
plt.pie(slices, labels=labels, colors=color, wedgeprops={'edgecolor':'black'})
plt.show()
```



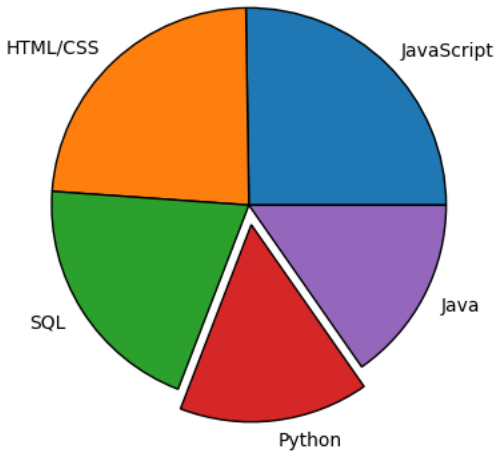
5. plotting real world data

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

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


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



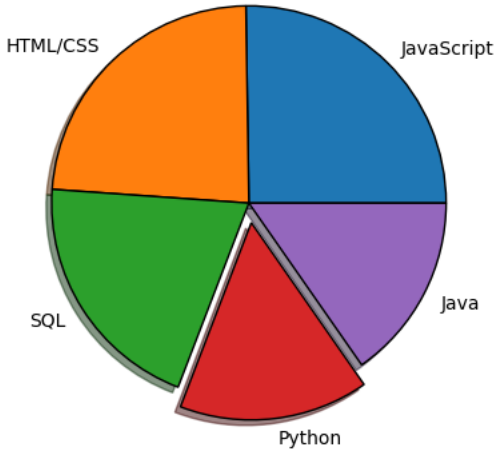
6. Exploding the slice

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

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



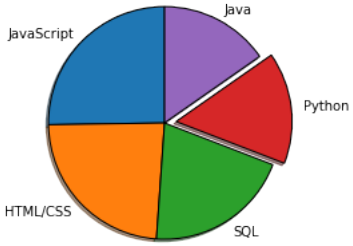
7. adding shadow to the chart

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



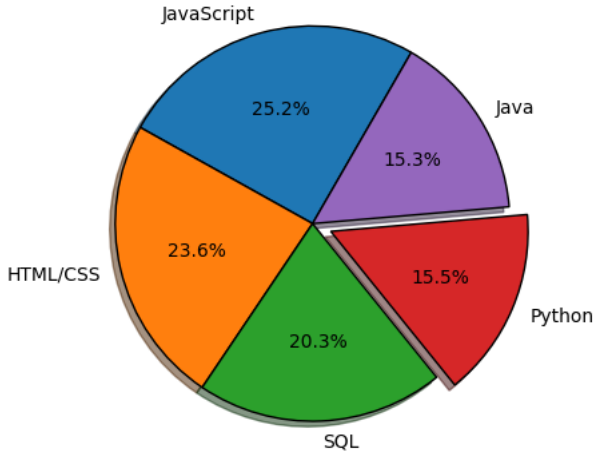
8. setting the starting angle

```
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')
```

```
---------------------------------------------------------------------------
MessageError                              Traceback (most recent call last)
<ipython-input-15-d5df0069828e> in <cell line: 2>()
      1 from google.colab import drive
----> 2 drive.mount('/content/drive')

                                  3 frames
/usr/local/lib/python3.10/dist-packages/google/colab/_message.py in
read_reply_from_input(message_id, timeout_sec)
    101     ):
    102       if 'error' in reply:
--> 103         raise MessageError(reply['error'])
    104       return reply.get('data', None)
    105

MessageError: Error: credential propagation was unsuccessful
```

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

```
---------------------------------------------------------------------------
FileNotFoundError                         Traceback (most recent call last)
<ipython-input-16-6163ab026785> in <cell line: 1>()
----> 1 data = pd.read_csv('/content/drive/My Drive/data/Covid_19.csv')

                                  6 frames
/usr/local/lib/python3.10/dist-packages/pandas/io/common.py in get_handle(path_or_buf,
mode, encoding, compression, memory_map, is_text, errors, storage_options)
    854         if ioargs.encoding and "b" not in ioargs.mode:
    855             # Encoding
--> 856             handle = open(
    857                 handle,
    858                 ioargs.mode,

FileNotFoundError: [Errno 2] No such file or directory: '/content/drive/My
Drive/data/Covid 19.csv'
```

```
data.head()
```

	State	last_updated	population	tested__last_updated	total__confirmed	total__d
0	AN	2020-09-05T22:09:31+05:30	397000	9/4/2020	3292	
1	AP	2020-09-05T20:15:29+05:30	52221000	9/5/2020	487331	
2	AR	2020-09-06T00:53:37+05:30	1504000	9/5/2020	4914	