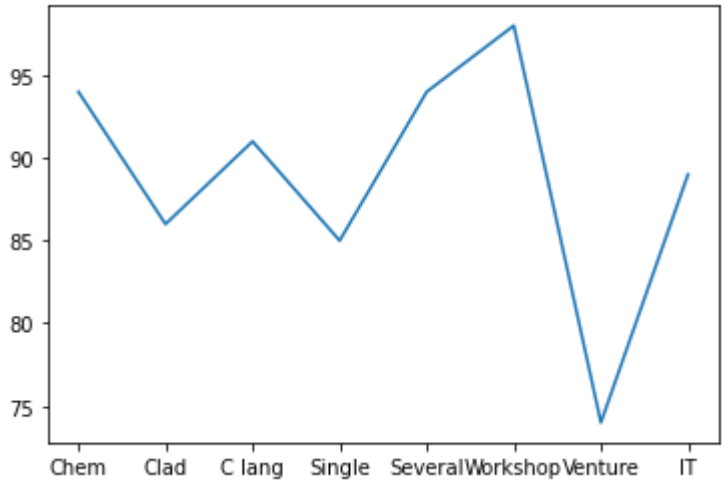
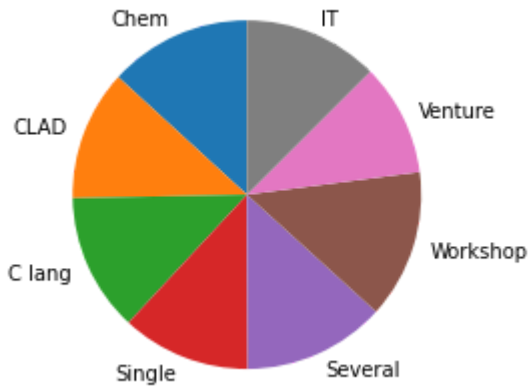
```
import matplotlib.pyplot as plt
import numpy as np

xpoints = np.array(['Chem','Clad','C lang','Single','Several','Workshop','Venture','IT' ])
ypoints = np.array([94,86,91,85,94,98,74,89 ])

plt.plot(xpoints, ypoints)
plt.show()
```

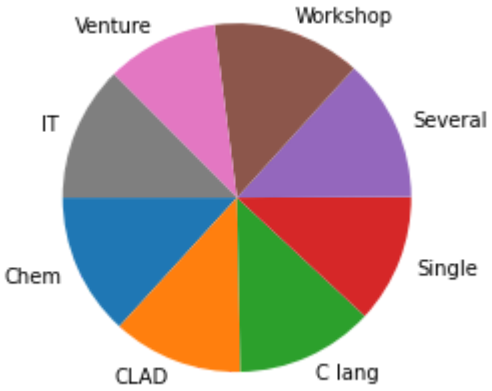



```
import matplotlib.pyplot as plt
import numpy as np

y = np.array([94,86,91,85,94,98,74,89 ])
mylabels = ['Chem','CLAD','C lang','Single','Several','Workshop','Venture','IT' ]

plt.pie(y, labels = mylabels, startangle = 90)
plt.show()
```

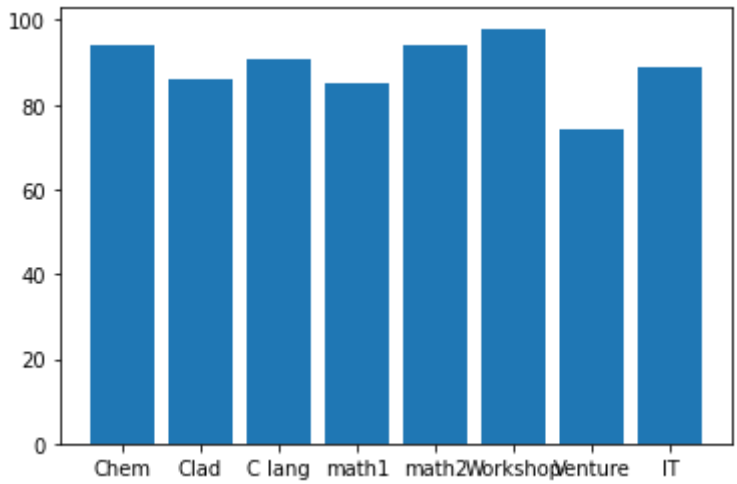



```
import matplotlib.pyplot as plt
import numpy as np

y = np.array([94,86,91,85,94,98,74,89 ])
mylabels = ['Chem','CLAD','C lang','Single','Several','Workshop','Venture','IT' ]
```

```
plt.pie(y, labels = mylabels, startangle = 180)
plt.show()
```

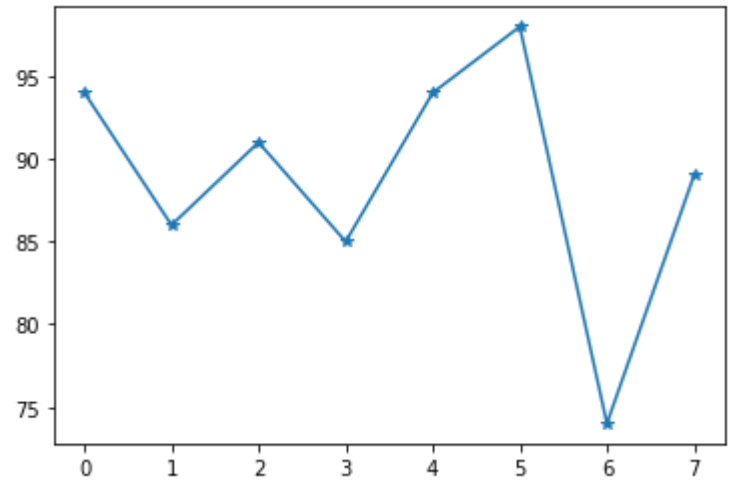



```
import matplotlib.pyplot as plt
import numpy as np

x = np.array(['Chem','Clad','C lang','math1','math2','Workshop','Venture','IT'])
y = np.array([94,86,91,85,94,98,74,89])

plt.bar(x,y)
plt.show()
```

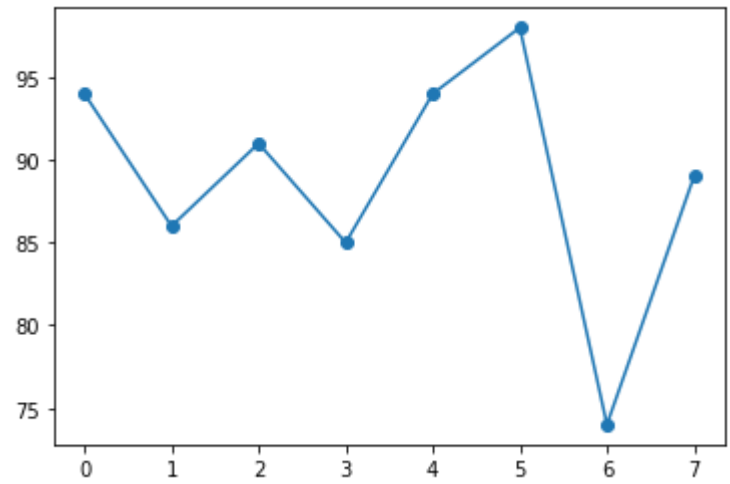



```
import matplotlib.pyplot as plt
import numpy as np

xpoints = np.array(['Chem','Clad','C lang','math1','math2','Workshop','Venture','IT'])
ypoints = np.array([94,86,91,85,94,98,74,89])

plt.plot(xpoints, ypoints, 'o')
plt.show()
```


```
import matplotlib.pyplot as plt
import numpy as np

ypoints = np.array([94,86,91,85,94,98,74,89])

plt.plot(ypoints, marker = '*')
plt.show()
```

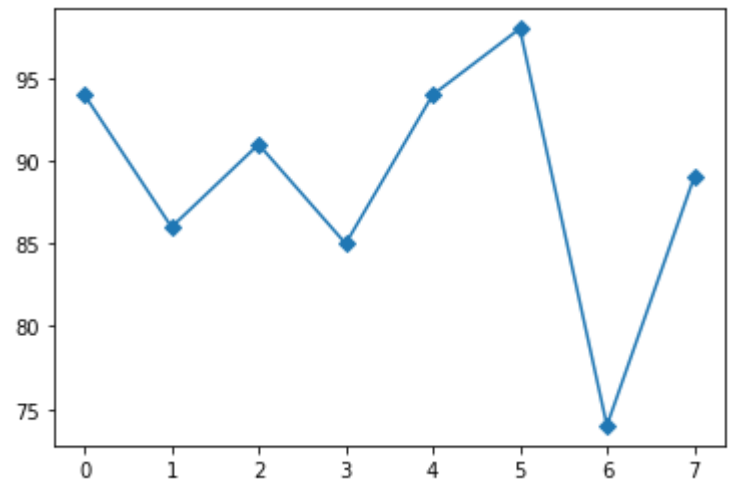



```
import matplotlib.pyplot as plt
import numpy as np

ypoints = np.array([94,86,91,85,94,98,74,89])

plt.plot(ypoints, marker = 'o')
plt.show()
```

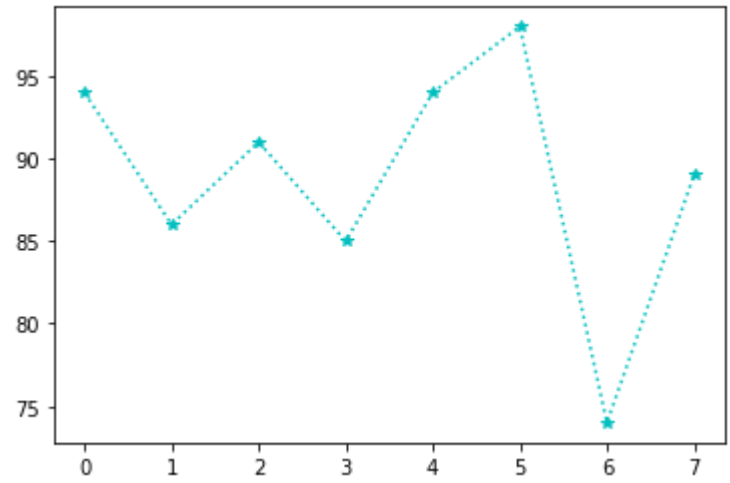



```
import matplotlib.pyplot as plt
```

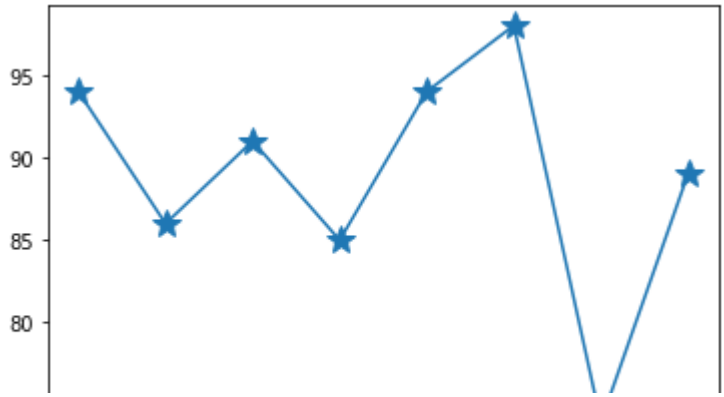
```
import numpy as np

ypoints = np.array([94,86,91,85,94,98,74,89])

plt.plot(ypoints, marker = 'D')
plt.show()
```



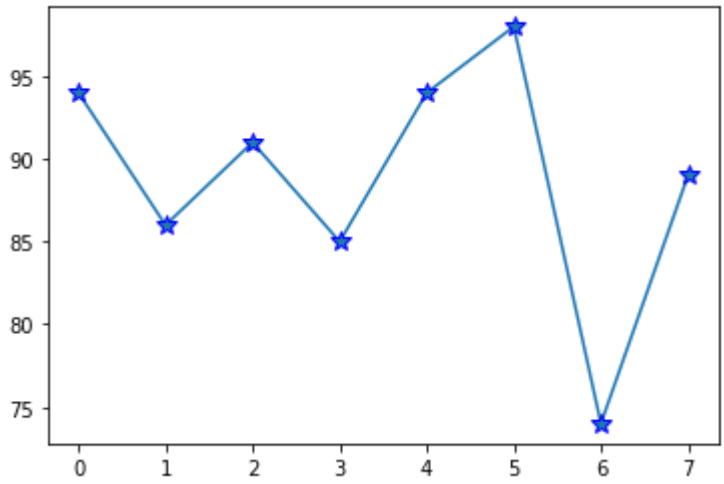

```
import matplotlib.pyplot as plt
import numpy as np

ypoints = np.array([94,86,91,85,94,98,74,89])

plt.plot(ypoints, '*:c')
plt.show()
```




```
import matplotlib.pyplot as plt
import numpy as np

ypoints = np.array([94,86,91,85,94,98,74,89])

plt.plot(ypoints, marker = '*', ms = 15)
plt.show()
```

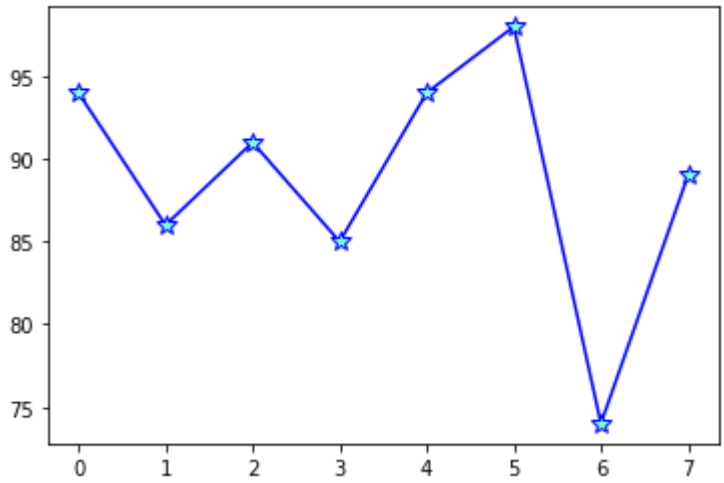



```
import matplotlib.pyplot as plt
import numpy as np

ypoints = np.array([94,86,91,85,94,98,74,89])

plt.plot(ypoints, marker = '*', ms = 11, mec = 'b')
plt.show()
```

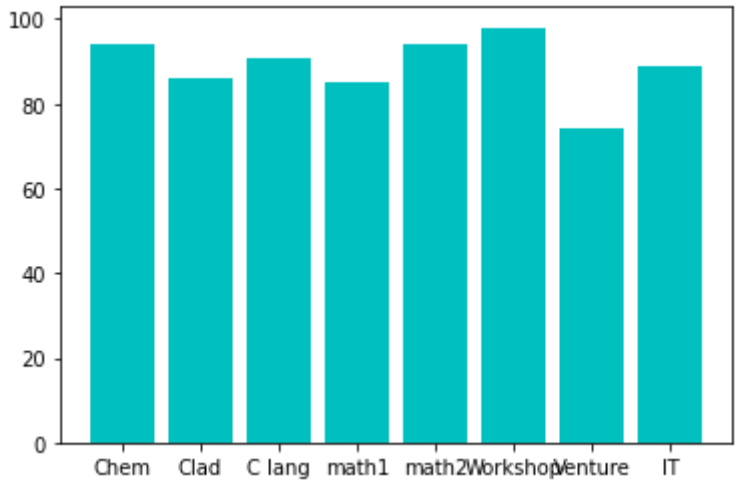



```
import matplotlib.pyplot as plt
import numpy as np

ypoints = np.array([94,86,91,85,94,98,74,89])

plt.plot(ypoints, marker = '*', ms = 11, mfc = 'r')
plt.show()
```

```
import matplotlib.pyplot as plt
import numpy as np

ypoints = np.array([94,86,91,85,94,98,74,89])

plt.plot(ypoints, marker = '*', ms = 11, mfc = '#7FFFD4',color = 'b')
plt.show()
```

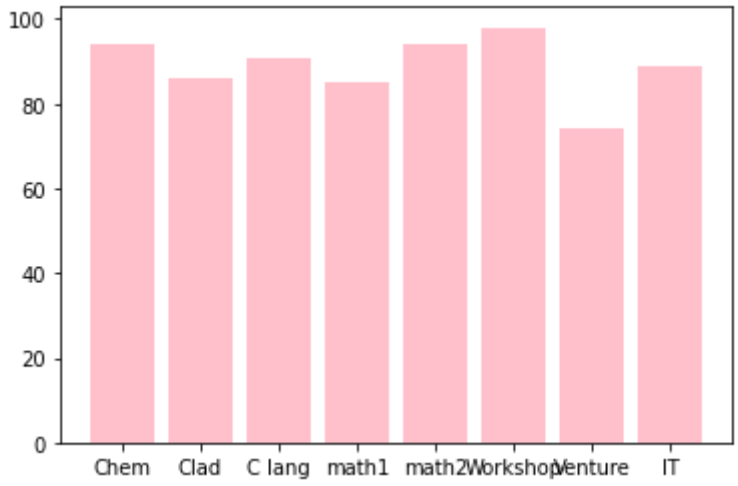



```
import matplotlib.pyplot as plt
import numpy as np

x = np.array(['Chem','Clad','C lang','math1','math2','Workshop','Venture','IT'])
y = np.array([94,86,91,85,94,98,74,89])

plt.bar(x,y,color="c")
plt.show()
```

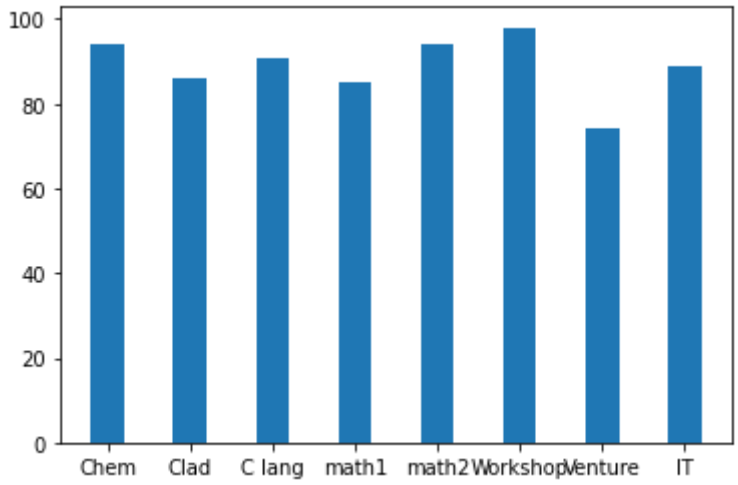



```
import matplotlib.pyplot as plt
import numpy as np

x = np.array(['Chem','Clad','C lang','math1','math2','Workshop','Venture','IT'])
y = np.array([94,86,91,85,94,98,74,89])
```

```
plt.bar(x,y,color="Pink")
plt.show()
```

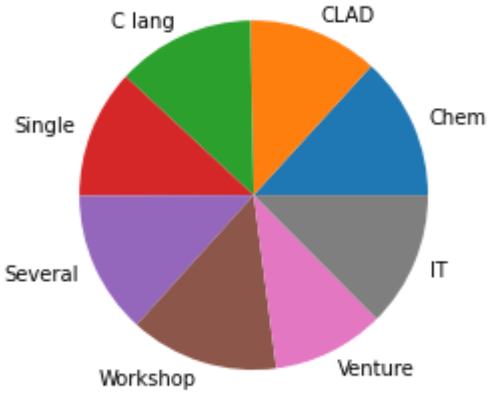



```
import matplotlib.pyplot as plt
import numpy as np

x = np.array(['Chem','Clad','C lang','math1','math2','Workshop','Venture','IT'])
y = np.array([94,86,91,85,94,98,74,89])

plt.bar(x,y,width=0.4)
plt.show()
```

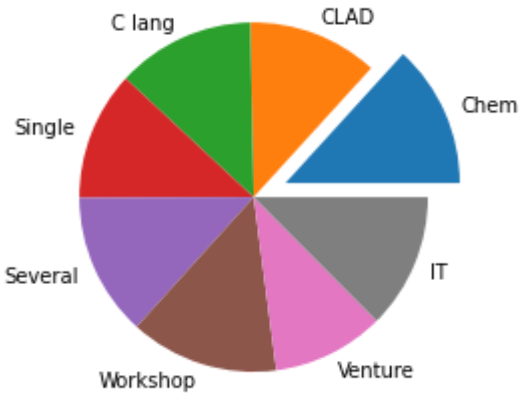



```
import matplotlib.pyplot as plt
import numpy as np

x = np.array(['Chem','Clad','C lang','math1','math2','Workshop','Venture','IT'])
y = np.array([94,86,91,85,94,98,74,89])

plt.barh(x,y,height = 0.4)
plt.show()
```


```
import matplotlib.pyplot as plt
import numpy as np

y = np.array([94,86,91,85,94,98,74,89 ])
mylabels = ['Chem','CLAD','C lang','Single','Several','Workshop','Venture','IT' ]

plt.pie(y, labels = mylabels)
plt.show()
```

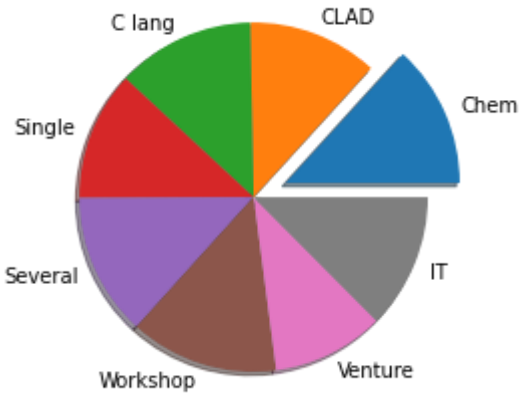



```
import matplotlib.pyplot as plt
import numpy as np

y = np.array([94,86,91,85,94,98,74,89 ])
mylabels = ['Chem','CLAD','C lang','Single','Several','Workshop','Venture','IT' ]
myexplode = [0.2, 0, 0, 0,0,0,0,0]
plt.pie(y, labels = mylabels, explode = myexplode)
plt.show()
```

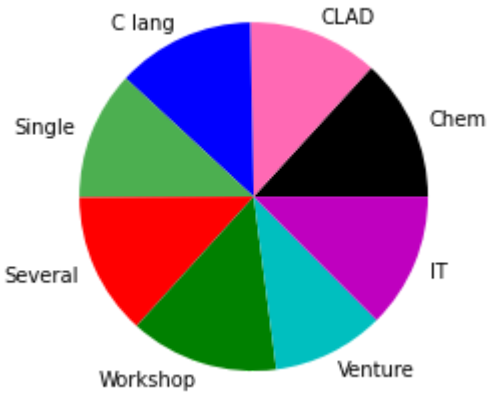



```
import matplotlib.pyplot as plt
```

```
import matplotlib.pyplot as plt
import numpy as np

y = np.array([94,86,91,85,94,98,74,89 ])
mylabels = ['Chem','CLAD','C lang','Single','Several','Workshop','Venture','IT' ]
myexplode = [0.2, 0, 0, 0,0,0,0,0]
plt.pie(y, labels = mylabels, explode = myexplode,shadow=True)
plt.show()
```

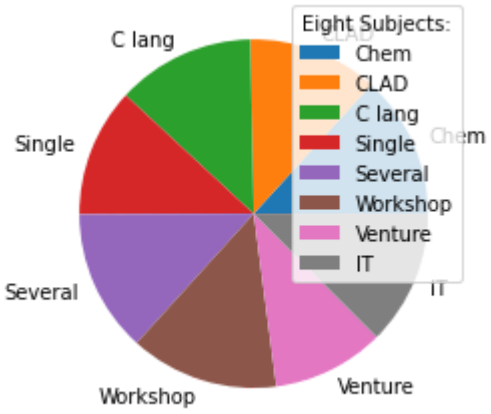



```
import matplotlib.pyplot as plt
import numpy as np

y = np.array([94,86,91,85,94,98,74,89 ])
mylabels = ['Chem','CLAD','C lang','Single','Several','Workshop','Venture','IT' ]
mycolors = ["black", "hotpink", "b", "#4CAF50","Red","g","c","m"]

plt.pie(y, labels = mylabels,colors = mycolors)
plt.show()
```

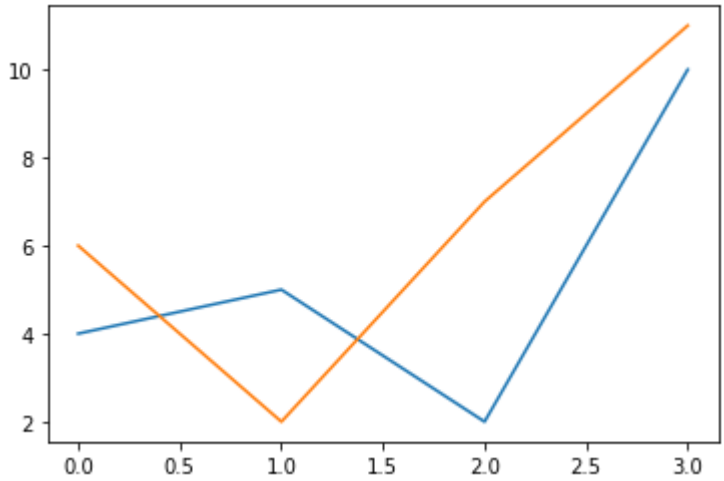



```
import matplotlib.pyplot as plt
import numpy as np

y = np.array([94,86,91,85,94,98,74,89])

mylabels = ['Chem','CLAD','C lang','Single','Several','Workshop','Venture','IT']

plt.pie(y, labels = mylabels)
```

```
plt.legend(title = "Eight Subjects:")
plt.show()
```

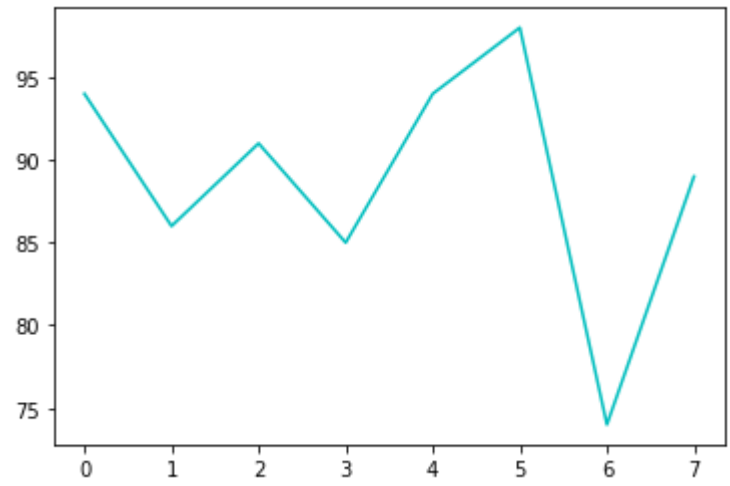



```
import matplotlib.pyplot as plt
import numpy as np

x1 = np.array([0, 1, 2, 3])
y1 = np.array([4, 5, 2, 10])
x2 = np.array([0, 1, 2, 3])
y2 = np.array([6, 2, 7, 11])

plt.plot(x1, y1, x2, y2)
plt.show()
```




```
import matplotlib.pyplot as plt
import numpy as np

x = np.array([98,89,97,87,98,95,76,95])
y = np.array([94,86,91,85,94,98,74,89])

plt.scatter(x, y)
plt.show()
```


```
import matplotlib.pyplot as plt
import numpy as np

ypoints = np.array([94,86,91,85,94,98,74,89])

plt.plot(ypoints, color = 'c')
plt.show()
```




```
import matplotlib.pyplot as plt
import numpy as np

x = np.random.normal(180,10,250)

plt.hist(x)
plt.show()
```