Function	Description
plt.plot(x_values, y_values)	Creates a line. x_values and y_values are lists of numbers (i.e., [1, 2, 3, 4]). Also accepts the following keyword arguments:
	 marker - a symbol that will appear at each (x, y) point. Options include '*' for a start, 'o' for a circle, or 's' for a square. linestyle - whether the line is solid ('-') or dashed ('' or ':') or no line at all ('') linewidth - a number representing the thickness of the line; default is 1 color - the color of the line (can be a HEX code or any html color name)
plt.show()	Displays any previous plot commands
plt.close('all')	Closes all previous figures
<pre>plt.figure(figsize=(width, length))</pre>	Creates a new figure with a specified length and width. width and length are both numbers in inches.
plt.title('My Chart Title')	A title for a chart.
plt.xlabel('My X-Label')	A label for the x-axis
plt.ylabel('My Y-Label')	A label for the y-axis
<pre>plt.subplot(num_rows, num_cols, subplot_index)</pre>	Creates a subplot for a grid with num_rows rows and num_cols columns. The new subplot is at a position defined by subplot_index. For instance, plt.subplot(2, 3, 4) would create a grid with 2 rows and 3 columns and would create a plot in the second row and the first column (4 "steps" if moving left to right and top to bottom).

Function	Description
<pre>ax = plt.subplot()</pre>	Creates and axes object (ax) that can be used for adjusting the position and labeling of x- and y-axis tick marks.
<pre>plt.legend(['label1', 'label2'])</pre>	Creates a legend using the labels given.
plt.legend()	Creates a legend using any label keywords that were given in plt.plot commands.
ax.set_xticks([0, 1, 2, 3, 4])	Creates tick marks at positions [0, 1, 2, 3, 4] on the x-axis. Requires that you created an axes object by using ax = plt.subplot().
ax.set_yticks([0, 1, 2, 3, 4])	Creates tick marks at positions [0, 1, 2, 3, 4] on the y-axis. Requires that you created an axes object by using ax = plt.subplot().
<pre>ax.set_xticklabels(['label1', 'label2', 'label3'])</pre>	Modifies the first three labels of the x-axis ticks marks to be 'label1', 'label2', 'label3' Requires that you created an axes object by using ax = plt.subplot(). You'll probably want to start by specify the positions of your x-ticks using ax.set_xticks.
<pre>ax.set_yticklabels(['label1', 'label2', 'label3'])</pre>	Modifies the first three labels of the y-axis ticks marks to be 'label1', 'label2', 'label3' Requires that you created an axes object by using ax = plt.subplot(). You'll probably want to start by specify the positions of your y-ticks using ax.set_yticks.

Function	Description
plt.bar(x_values, heights)	Creates a bar chart with bars at each value of x_values using the heights given in heights. If you're only creating one bar chart, x_values can be equal to range(len(heights)).
<pre># n: Number of the series # t: Total number of series to plot # d: Number of data points # w: width of each bart (default is 0.8) [t*x + w*n for x in range(d)]</pre>	Creates x-values for side-by-side bar charts.
<pre>plt.bar(x_values, heights, bottoms =other_heights)</pre>	Creates a second bar chart stacked on top of another bar chart whose heights are other_heights.
<pre>plt.bar(x_values, heights, yerr=errors, capsize=capsize)</pre>	Creates a bar chart with error bars where each bar's error height is given by errors and the width of each error bar is given by the integer capsize.
<pre>plt.hist(dataset, bins=num_bins, range= (min, max))</pre>	Creates a histogram of the dataset dataset. The default number of bins is 10, but if the bins keyword is given, then the number of bins is num_bins. The default range is all values of dataset, but if the keyword range is given, only values between min and max will be used.
plt.hist(dataset, alpha=0.5)	Creates a semi-transparent histogram
<pre>plt.hist(dataset, histtype='step')</pre>	Creates a histogram with a dark outline and no internal fill color.
plt.hist(dataset, normed=True)	Creates a normalized histogram where the sum of the area under the curve is 1. This is useful when graphing two histograms with different sized datasets.

Function	Description
plt.pie(pie_chart_data)	Creates a pie chart where each slice of the pie is given by the value of pie_chart_data divided by sum(pie_chart_data)
plt.axis('equal')	Makes a pie chart round and not oblong
<pre>plt.pie(pie_chart_data, labels= ['label1', 'label2', 'label3'])</pre>	Creates labels for each slice of the pie chart
<pre>plt.pie(pie_chart_data, autopct='%d%%')</pre>	Labels for each slice of the pie chart with its percentage (i.e., '23%')
<pre>plt.pie(pie_chart_data, autopct='%0.2f%%')</pre>	Labels for each slice of the pie chart with its percentage (i.e., '23.05%')
<pre>plt.fill_between(x_values, lower_y, upper_y)</pre>	Creates a shaded area between the upper and lower bounds given. Usually used to show error around a line plot.