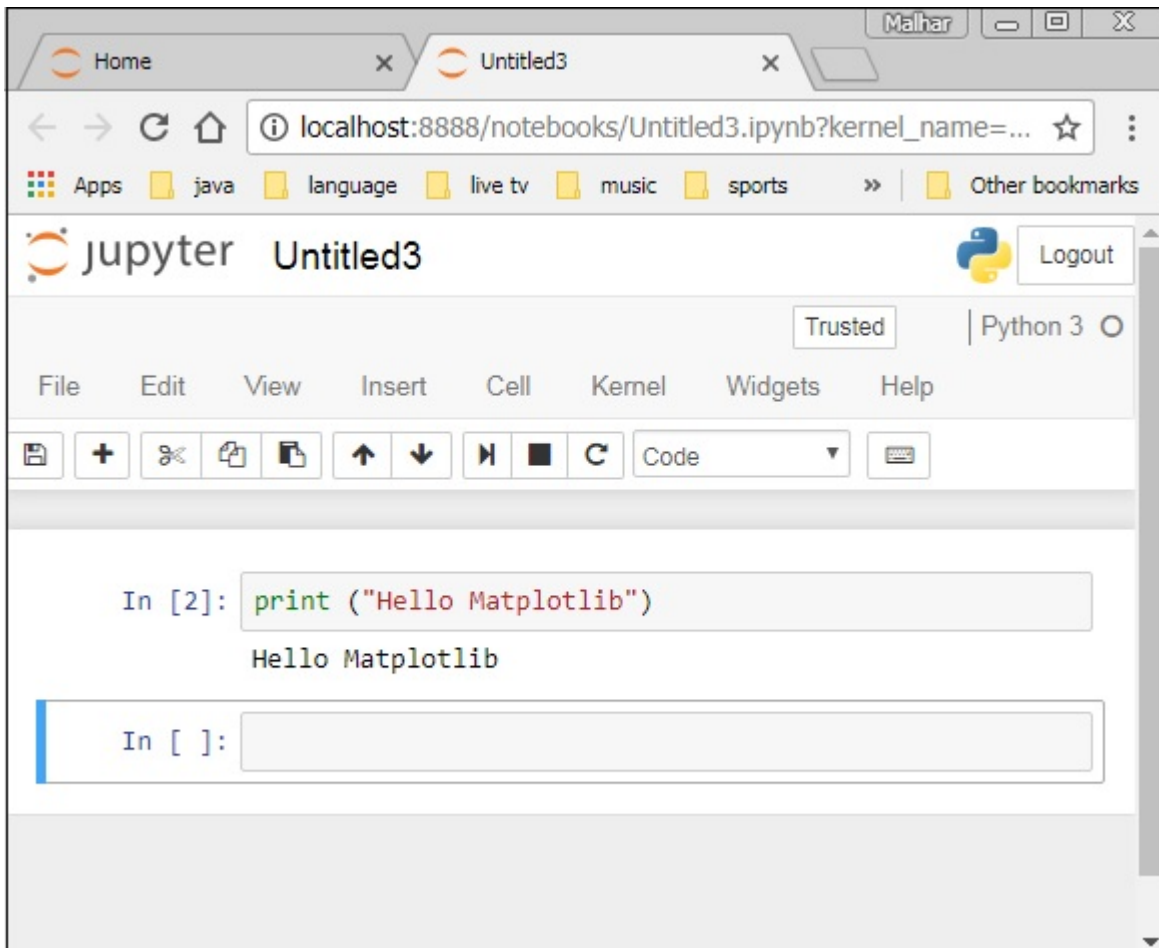


Matplotlib - Pyplot API

A new untitled notebook with the **.ipynb** extension (stands for the IPython notebook) is displayed in the new tab of the browser.



matplotlib.pyplot is a collection of command style functions that make Matplotlib work like MATLAB. Each Pyplot function makes some change to a figure. For example, a function creates a figure, a plotting area in a figure, plots some lines in a plotting area, decorates the plot with labels, etc.

Types of Plots

Sr.No	Function & Description
1	Bar Make a bar plot.
2	Barh Make a horizontal bar plot.
3	Boxplot Make a box and whisker plot.
4	Hist Plot a histogram.
5	hist2d Make a 2D histogram plot.
6	Pie Plot a pie chart.
7	Plot Plot lines and/or markers to the Axes.
8	Polar Make a polar plot..
9	Scatter Make a scatter plot of x vs y.
10	Stackplot Draws a stacked area plot.
11	Stem

	Create a stem plot.
12	Step Make a step plot.
13	Quiver Plot a 2-D field of arrows.

Image Functions

Sr.No	Function & Description
1	Imread Read an image from a file into an array.
2	Imsave Save an array as in image file.
3	Imshow Display an image on the axes.

Axis Functions

Sr.No	Function & Description
1	Axes Add axes to the figure.
2	Text Add text to the axes.
3	Title Set a title of the current axes.
4	Xlabel Set the x axis label of the current axis.
5	Xlim Get or set the x limits of the current axes.
6	Xscale .
7	Xticks Get or set the x-limits of the current tick locations and labels.
8	Ylabel Set the y axis label of the current axis.
9	Ylim Get or set the y-limits of the current axes.
10	Yscale Set the scaling of the y-axis.
11	Yticks

Get or set the y-limits of the current tick locations and labels.

Figure Functions

Sr.No	Function & Description
1	Figtext Add text to figure.
2	Figure Creates a new figure.
3	Show Display a figure.
4	Savefig Save the current figure.
5	Close Close a figure window.