**MATPLOTLIB LIBRARY IN PYTHON**

Create a figure object:

fig = plt.figure(); //a figure contains all the plots that the user creates

creating subplots:

ax1 = fig.add\_aubplot(2,2,1); //creates a graph in the empty figure

ax1 = fig.add\_subplot(2,2,3); //creates 3 graphs in the empty figure

plt.plot([1,2,3,4]); //plots the points on the graph

plt.plot([1,2,3,4], “k—“,); //plot the graph using dashed lines

plt.scatter(); //scatter is used to scatter points on the graph

plt.plot([1,2,3,4], “ko—“,); //plot the graph using dashed lines connected by dots to highlight the actual data points

plt.legend(); //this used to show the types of lines and points used in the graph and what they represent