#Aim: Demonstrate the use of Matplotlib library.

from matplotlib import pyplot as plt

plt.plot([1,2,3],[4,5,1])

plt.show()

x = [5,3,7]

y = [2,16,5]

plt.plot(x,y)

plt.title('Info')

plt.ylabel('Y axis')

plt.xlabel('X axis')

plt.show()

#Style Functions

style.use('ggplot')

x = [6,8,10]

y = [10,16,6]

x2 = [6,10,11]

y2 = [6,16,7]

plt.plot(x,y,'g',label='line one', linewidth=5)

plt.plot(x2,y2,'c',label='line two',linewidth=5)

plt.title('Epic Info')

plt.ylabel('Y axis')

plt.xlabel('X axis')

plt.legend()

plt.grid(True,color='k')

plt.show()

#bar-graph

plt.bar([0.25,1.25,2.25,3.25,4.25],[50,40,70,90,30],

label="BMW",width=.5)

plt.bar([.75,1.75,2.75,3.75,4.75],[80,20,30,70,60],

label="Audi", color='r',width=.5)

plt.legend()

plt.xlabel('Days')

plt.ylabel('Distance (kms)')

plt.title('Information')

plt.show()