-------------------------------------------------------------------------P1

x=654585222

x.split()

len(x.split())

2+5

2+4\*8

2\*\*3

from math import \*

print sin(90)

print cos(54)

print tan(45)

print(' π: *{:.30f}*'.format(math.pi))

print(' e: *{:.30f}*'.format(math.e))

# importing the required module

import matplotlib.pyplot as plt

# x axis values

x = [1,2,3]

# corresponding y axis values

y = [2,4,1]

# plotting the points

plt.plot(x, y)

# naming the x axis

plt.xlabel('x - axis')

# naming the y axis

plt.ylabel('y - axis')

# giving a title to my graph

plt.title('My first graph!')

# function to show the plot

plt.show()

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import matplotlib.pyplot as plt

# line 1 points

x1 = [1,2,3]

y1 = [2,4,1]

# plotting the line 1 points

plt.plot(x1, y1, label = "line 1")

# line 2 points

x2 = [1,2,3]

y2 = [4,1,3]

# plotting the line 2 points

plt.plot(x2, y2, label = "line 2")

# naming the x axis

plt.xlabel('x - axis')

# naming the y axis

plt.ylabel('y - axis')

# giving a title to my graph

plt.title('Two lines on same graph!')

# show a legend on the plot

plt.legend()

# function to show the plot

plt.show()

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import matplotlib.pyplot as plt

# x-coordinates of left sides of bars

left = [1, 2, 3, 4, 5]

# heights of bars

height = [10, 24, 36, 40, 5]

# labels for bars

tick\_label = ['one', 'two', 'three', 'four', 'five']

# plotting a bar chart

plt.bar(left, height, tick\_label = tick\_label,

width = 0.8, color = ['red', 'green'])

# naming the x-axis

plt.xlabel('x - axis')

# naming the y-axis

plt.ylabel('y - axis')

# plot title

plt.title('My bar chart!')

# function to show the plot

plt.show()

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import matplotlib.pyplot as plt

# frequencies

ages = [2,5,70,40,30,45,50,45,43,40,44,

60,7,13,57,18,90,77,32,21,20,40]

# setting the ranges and no. of intervals

range = (0, 100)

bins = 10

# plotting a histogram

plt.hist(ages, bins, range, color = 'green',

histtype = 'bar', rwidth = 0.8)

# x-axis label

plt.xlabel('age')

# frequency label

plt.ylabel('No. of people')

# plot title

plt.title('My histogram')

# function to show the plot

plt.show()

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# importing the required modules

import matplotlib.pyplot as plt

import numpy as np

# setting the x - coordinates

x = np.arange(0, 2\*(np.pi), 0.1)

# setting the corresponding y - coordinates

y = np.sin(x)

# plotting the points

plt.plot(x, y)

# function to show the plot

plt.show()