# -\*- coding: utf-8 -\*-

"""Untitled11.ipynb

Automatically generated by Colab.

Original file is located at

https://colab.research.google.com/drive/1dXEcFJBc7QP2H1sPCY1s3gxZ6JaafIsE

"""

import matplotlib.pyplot as plt

import numpy as np

x=np.array([0,6])

y=np.array([0,250])

plt.plot(x,y)

plt.show()

import matplotlib.pyplot as plt

import numpy as np

x=np.array([1,2,6,8])

y=np.array([3,8,1,10])

plt.plot(x,y)

plt.show()

import matplotlib.pyplot as plt

import numpy as np

y = np.array ([3,8,1,10])

plt.plot(y,marker='o')

plt.show()

import matplotlib.pyplot as plt

import numpy as np

y = np.array ([3,8,1,10])

plt.plot(y,'o:r')

plt.show()

import matplotlib.pyplot as plt

import numpy as np

y = np.array ([3,8,1,10])

plt.plot(y,marker='o', ms=20, mec='r')

plt.show()

import matplotlib.pyplot as plt

import numpy as np

x1 = np.array ([0,1,2,3])

y1 = np.array ([3,8,1,10])

x2 = np.array ([0,1,2,3])

y2 = np.array ([6,2,7,11])

plt.plot(x1,y1,x2,y2)

plt.show()

import matplotlib.pyplot as plt

import numpy as np

y = np.array ([3,8,1,10])

plt.plot(y,marker='o', ms=20, mfc='r')

plt.show()

import matplotlib.pyplot as plt

import numpy as np

x = np.array([0,1,2,3,4,5])

y = np.array([0,8,12,20,26,38])

plt.scatter(x,y)

plt.show()

import matplotlib.pyplot as plt

import numpy as np

x= np.array([0,1,2,3,4,5])

y= np.array([0,2,8,1,14,7])

plt.scatter(x,y,color='red')

x= np.array([12,6,8,11,8,3])

y= np.array([5,6,3,7,17,19])

plt.scatter(x,y,color='green')

plt.show()

import matplotlib.pyplot as plt

import numpy as np

x = np.array([0,1,2,3,4,5])

y = np.array([0,2,8,1,14,7])

mycolor=['red', 'green', 'purple', 'lime', 'aqua','yellow']

plt.scatter(x,y,color= mycolor)

plt.show()

import matplotlib.pyplot as plt

import numpy as np

x = np.array([0,1,2,3,4,5])

y = np.array([0,2,8,1,14,7])

mycolor=['red', 'green','purple', 'lime', 'aqua','yellow']

size=[10,60,120,80,20,190]

plt.scatter(x,y,color= mycolor, s=size)

plt.show()

import matplotlib.pyplot as plt

import numpy as np

x = np.array(['613','614','510'])

y = np.array([5,4,3])

plt.bar(x,y)

plt.show()

import matplotlib.pyplot as plt

import numpy as np

x = np.array([5,4,3])

plt.pie(y)

plt.show()

import matplotlib.pyplot as plt

import numpy as np

x = np.array([5,4,3])

mylabels = ['613','614','510']

plt.pie(y, labels=mylabels)

plt.show()

import matplotlib.pyplot as plt

import numpy as np

x = np.array([5,4,3])

mylabels = ['613','614','510']

plt.pie(y, labels=mylabels, startangle=90)

plt.show()

import matplotlib.pyplot as plt

import numpy as np

x = np.array([5,4,3])

mylabels = ['613','614','510']

mycolors = ["black", "hotpink", "red"]

myexplode = [0.2, 0, 0]

plt.pie(y, labels=mylabels, startangle=90,

explode=myexplode, colors= mycolors)

plt.show()

import matplotlib.pyplot as plt

import numpy as np

x = np.array([5,4,3])

mylabels = ['613','614','510']

plt.pie(y, labels=mylabels)

plt.legend(title='Guruhlar:')