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STAT 1127

HOMEWORK 4

GITHUB LINK:

In [1]:

**import** numpy **as** np

In [2]:

numbers **=** np**.**array([[1,2,3,4], [5,6,7,8],[9,10,11,12]])

In [3]:

numbers

Out[3]:

array([[ 1, 2, 3, 4],

[ 5, 6, 7, 8],

[ 9, 10, 11, 12]])

In [4]:

numbers **\*** 2

Out[4]:

array([[ 2, 4, 6, 8],

[10, 12, 14, 16],

[18, 20, 22, 24]])

In [5]:

numbers**.**size

Out[5]:

12

In [6]:

numbers**.**shape

Out[6]:

(3, 4)

In [7]:

numbers **=** np**.**array([[1,2,3,4], [5,6,7,8],[9,10,11,12]])

In [8]:

**for** row **in** numbers:

**for** col **in** row:

print(col,end**=**' ')

print()

1 2 3 4

5 6 7 8

9 10 11 12

In [9]:

**for** row **in** numbers:

**for** col **in** row:

print(col, end**=**' ')

1 2 3 4 5 6 7 8 9 10 11 12

In [10]:

**import** matplotlib

In [11]:

**import** matplotlib.pyplot **as** plt

In [12]:

xpoints **=** np**.**array([1,6])

ypoints **=** np**.**array([5,10])

In [13]:

plt**.**plot(xpoints, ypoints)

plt**.**show()

Chart, line chart

Description automatically generated

In [14]:

xpoints**=** np**.**array([3,6,9,12])

ypoints**=** np**.**array([2,8,1,10])

In [15]:

plt**.**plot(xpoints,ypoints,marker**=**'D')

plt**.**show()

Chart, line chart

Description automatically generated

In [16]:

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

ypoints**=** np**.**array([2,4,6,14,10,12])

plt**.**plot(xpoints,ypoints, 'o:r', linestyle **=** 'dashed', marker **=** 'D', ms**=**10, mfc**=**'g', mec **=** 'g')

Out[16]:

[<matplotlib.lines.Line2D at 0x7fa5b7e2b8b0>]

Chart, line chart

Description automatically generated