

Jalen Jeudy
October 14, 2021
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
```

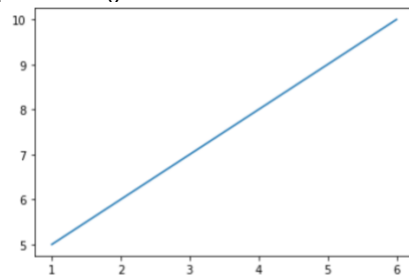
```
In [9]:
for row in numbers:
    for col in row:
        print(col, end=' ')
1 2 3 4 5 6 7 8 9 10 11 12
```

```
In [10]:
import matplotlib
```

```
In [11]:
import matplotlib.pyplot as plt
```

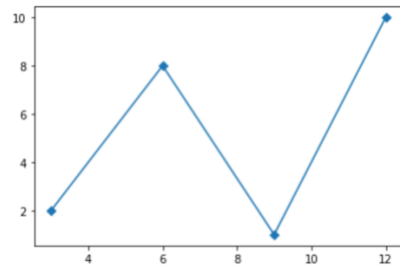
```
In [12]:
xpoints = np.array([1,6])
ypoints = np.array([5,10])
```

```
In [13]:
plt.plot(xpoints, ypoints)
plt.show()
```



```
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()
```



```
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>]
```

