02/03/2022, 01:28 Untitled2

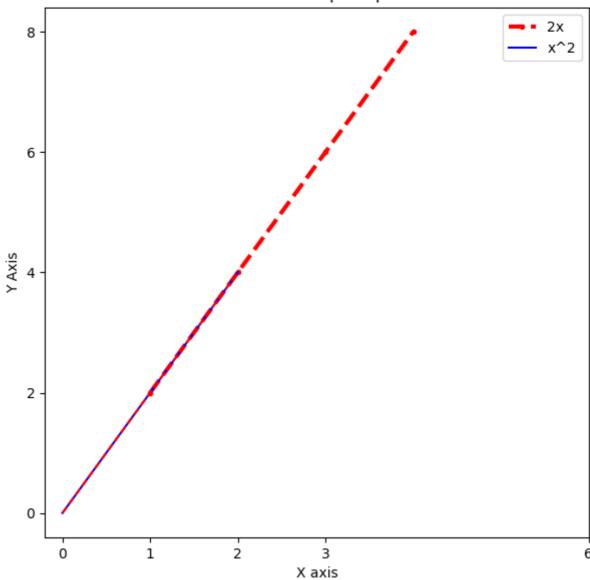
```
import matplotlib.pyplot as plt
import numpy as np
import pandas as pd
```

## **Basic Graph**

```
In [66]:
          ## first list or array is the horizontal axes and the second is the vertical axes
          x = [1,2,3,4]
          y = [2,4,6,8]
          plt.figure(figsize=(7,7), dpi = 100)
          plt.plot(x,y, label ='2x', color= 'red', linewidth = '3', marker='.', linestyle ='--
          #line number two using the numpy library
          x2 = np.arange(0, 4.5, 0.5)
          plt.plot(x2[:5], x2[:5]*2,color ='blue',label='x^2')
          plt.plot(x2[:5], x2[:5]*2,'r--')
          plt.title('Relationship Graph')
          plt.xlabel('X axis')
          plt.ylabel('Y Axis')
          plt.xticks([0,1,2,3,6,]) #The ticks are more or less like a scale or the size of the
          plt.yticks([0,2,4,6,8]) #ticks are scale and it shows how the graph illustration sho
          plt.legend()
          plt.savefig('mygraph.png',dpi=300)
          plt.show()
```

02/03/2022, 01:28 Untitled2

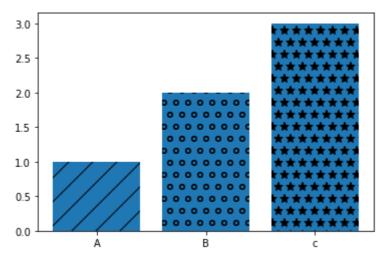
## Relationship Graph



## Bar chart

```
In [72]:
    labels = ['A', 'B','c']#horizontal
    values = [1,2,3] #vertical
    bars = plt.bar(labels, values)
    plt.figure(figsize =(6,4)) # resizing the original size
    bars[0].set_hatch('/')
    bars[1].set_hatch('o')
    bars[2].set_hatch('*')
    plt.show()
```

02/03/2022, 01:28 Untitled2



<Figure size 432x288 with 0 Axes>

In [ ]:		