

In [1]: *#Matplotlib is a plotting library for the Python programming language.  
#Matplotlib tries to make easy things easy and hard things possible. You can generate plots, histograms, power spectra, bar charts, errorcharts, scatterplots, etc.*

In [3]: `import numpy as np`

In [4]: `import pandas as pd`

In [5]: `import matplotlib.pyplot as plt`

In [6]: `x=np.linspace(0,6,9)`

In [7]: `x`

Out[7]: `array([0. , 0.75, 1.5 , 2.25, 3. , 3.75, 4.5 , 5.25, 6. ])`

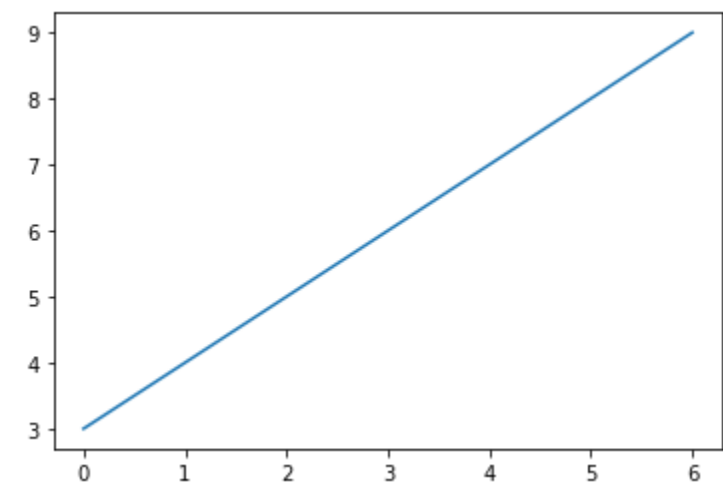
In [8]: `y=np.linspace(3,9,9)`

In [9]: `y`

Out[9]: `array([3. , 3.75, 4.5 , 5.25, 6. , 6.75, 7.5 , 8.25, 9. ])`

In [10]: `plt.plot(x,y)`

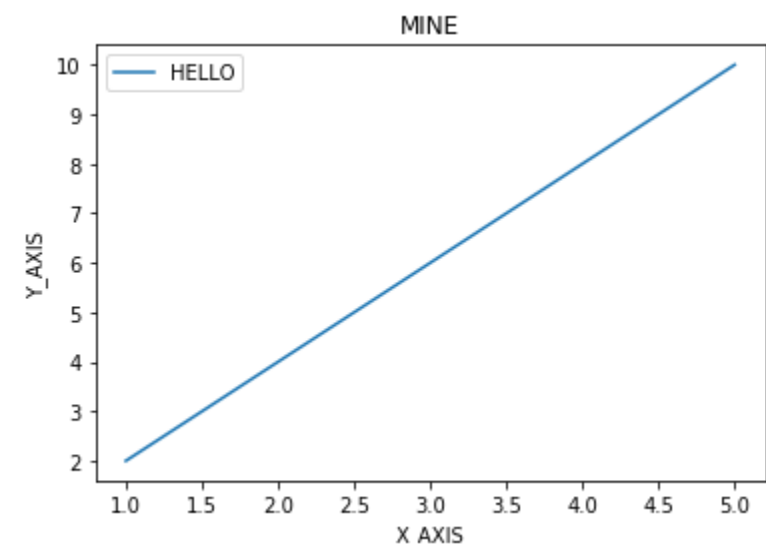
Out[10]: `[<matplotlib.lines.Line2D at 0x116e6f50>]`



In [11]: *#plt.legend()--When there are multiple curves in the graph,legen gives you easy identification of the curve to that respective label*

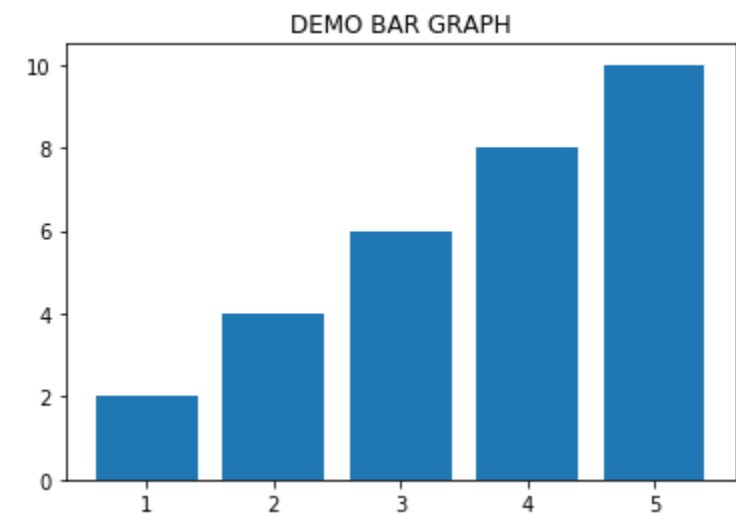
In [4]: `plt.plot([1,2,3,4,5],[2,4,6,8,10],label='HELLO')  
plt.xlabel("X_AXIS")  
plt.ylabel('Y_AXIS')  
plt.title("MINE")  
plt.legend()`

Out[4]: `<matplotlib.legend.Legend at 0x52422f0>`



In [13]: `plt.bar([1,2,3,4,5],[2,4,6,8,10],label='DEMO')  
plt.title("DEMO BAR GRAPH")`

Out[13]: `Text(0.5, 1.0, 'DEMO BAR GRAPH')`

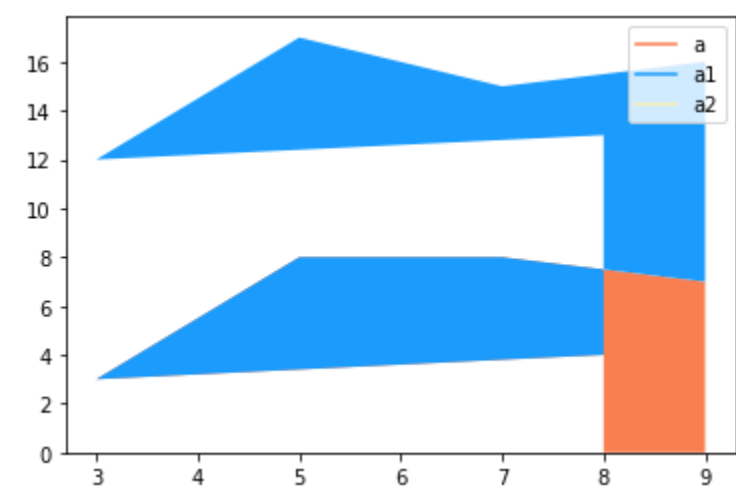


In [ ]:

In [27]: `a=[9,7,5,3,8]  
a1=[7,8,8,3,4]  
a2=[9,7,9,9,9]`

In [33]: `plt.plot([],[],color='#F97F51',label='a')  
plt.plot([],[],color='#1B9CFC',label='a1')  
plt.plot([],[],color='#F8EFBA',label='a2')  
plt.stackplot(a,a1,a2,colors=['#F97F51','#1B9CFC','#F8EFBA'])  
plt.legend()`

Out[33]: `<matplotlib.legend.Legend at 0x134736f0>`



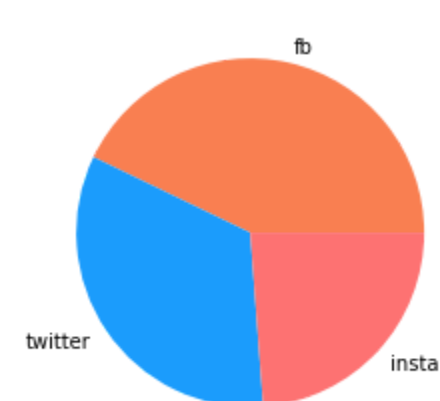
In [ ]: *#piechart*

In [16]: `mlabels=['fb','twitter','insta']`

In [17]: `piecolors=['#F97F51','#1B9CFC','#FD7272']`

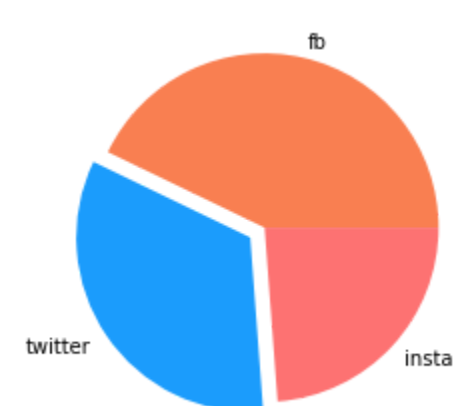
In [31]: `plt.pie(ads,labels=mlabels,colors=piecolors,explode=(0,0,0))`

Out[31]: `([<matplotlib.patches.Wedge at 0x134129b0>,  
<matplotlib.patches.Wedge at 0x13412c10>,  
<matplotlib.patches.Wedge at 0x13412e50>],  
[Text(0.2447730130080499, 1.0724207066739067, 'fb'),  
Text(-0.9088626158329182, -0.6196521165471361, 'twitter'),  
Text(0.8063571273955387, -0.7481899378489497, 'insta')])`



In [35]: `plt.pie(ads,labels=mlabels,colors=piecolors,explode=(0,0.1,0))`

Out[35]: `([<matplotlib.patches.Wedge at 0x133492f0>,  
<matplotlib.patches.Wedge at 0x133494d0>,  
<matplotlib.patches.Wedge at 0x13349770>],  
[Text(0.2447730130080499, 1.0724207066739067, 'fb'),  
Text(-0.991486489999547, -0.6759841271423304, 'twitter'),  
Text(0.8063571273955387, -0.7481899378489497, 'insta')])`



In [ ]: