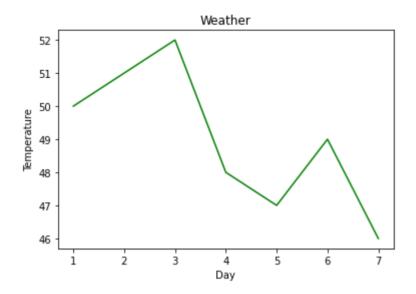
```
In [1]: import matplotlib.pyplot as plt
%matplotlib inline
```

```
In [2]: x=[1,2,3,4,5,6,7]
y=[50,51,52,48,47,49,46]
```

```
In [42]: plt.xlabel('Day')
   plt.ylabel('Temperature')
   plt.title('Weather')
   plt.plot(x,y,color='green')
```

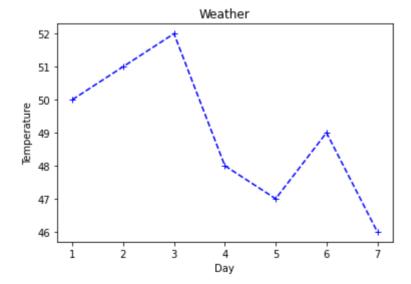
Out[42]: [<matplotlib.lines.Line2D at 0x227711ca980>]



```
In [4]: plt.xlabel('Day')
    plt.ylabel('Temperature')
    plt.title('Weather')

    plt.plot(x,y,'b+--')
```

Out[4]: [<matplotlib.lines.Line2D at 0x2276ed833a0>]



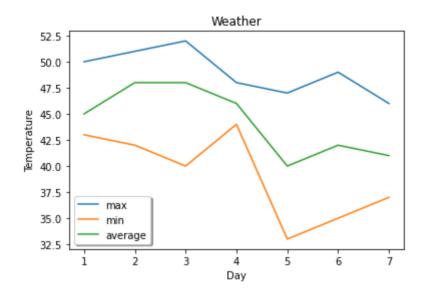
```
In [5]: days=[1,2,3,4,5,6,7]
    max_t=[50,51,52,48,47,49,46]
    min_t=[43,42,40,44,33,35,37]
    avg_t=[45,48,48,46,40,42,41]
```

```
In [6]: plt.xlabel('Day')
  plt.ylabel('Temperature')
  plt.title('Weather')

  plt.plot(days, max_t, label="max")
  plt.plot(days, min_t, label="min")
  plt.plot(days, avg_t, label="average")

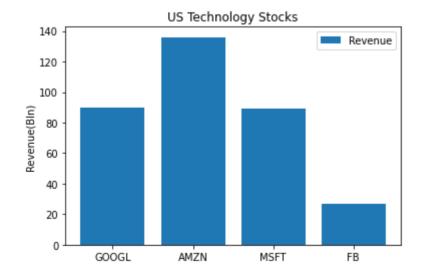
  plt.legend(loc='best',shadow=True)
```

Out[6]: <matplotlib.legend.Legend at 0x2276edef7c0>



```
In [7]: import numpy as np
In [8]: company=['GOOGL','AMZN','MSFT','FB']
    revenue=[90,136,89,27]
In [13]: plt.ylabel("Revenue(Bln)")
    plt.title('US Technology Stocks')
    plt.bar(company,revenue,label = "Revenue")
    plt.legend()
```

Out[13]: <matplotlib.legend.Legend at 0x2276ef2a530>



```
In [22]: xpos = np.arange(len(company))
xpos

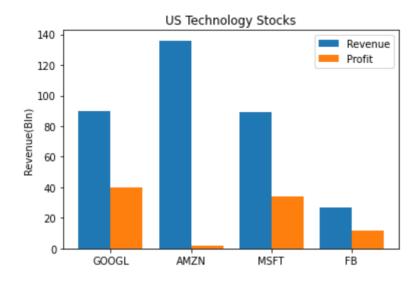
Out[22]: array([0, 1, 2, 3])

In [23]: profit=[40,2,34,12]

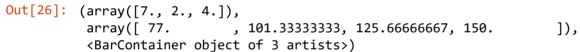
In [24]: plt.bar(xpos-0.2,revenue, width=0.4, label="Revenue")
    plt.bar(xpos+0.2,profit, width=0.4,label="Profit")

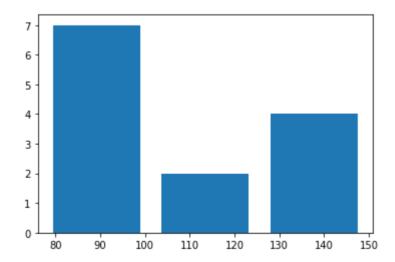
    plt.xticks(xpos,company)
    plt.ylabel("Revenue(Bln)")
    plt.title('US Technology Stocks')
    plt.legend()
```

Out[24]: <matplotlib.legend.Legend at 0x2276f1f3310>



In [26]: blood_sugar = [113, 85, 90, 150, 149, 88, 93, 115, 135, 80, 77, 82, 129]
 plt.hist(blood_sugar,bins=3, rwidth=0.8) # by default number of bins is set to 10





```
In [27]: plt.xlabel("Sugar Level")
    plt.ylabel("Number Of Patients")
    plt.title("Blood Sugar Chart")

blood_sugar_men = [113, 85, 90, 150, 149, 88, 93, 115, 135, 80, 77, 82, 129]
    blood_sugar_women = [67, 98, 89, 120, 133, 150, 84, 69, 89, 79, 120, 112, 100]

plt.hist([blood_sugar_men,blood_sugar_women], bins=[80,100,125,150], rwidth=0.95, col or=['green','orange'],label=['men','women'])
    plt.legend()
```

Out[27]: <matplotlib.legend.Legend at 0x227702bc280>

