In [1]:
```
# Importing the libraries
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
%matplotlib notebook
```

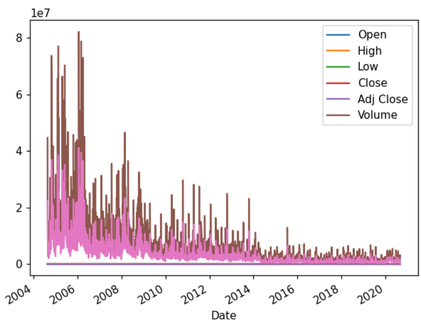
In [2]:
```
# Load the data
google_data=pd.read_csv('GOOGL.csv',index_col=0,parse_dates=True)
```

In [3]:
```
# print the first 5 rows of data
google_data.head()
```

Out[3]:

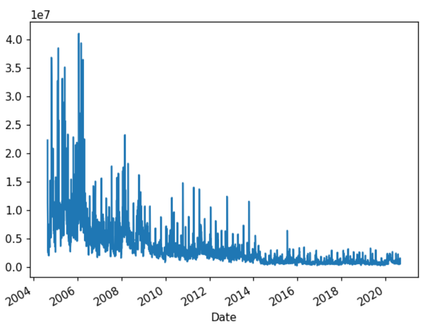
Date	Open	High	Low	Close	Adj Close	Volume
2004-08-19	50.050049	52.082081	48.028027	50.220219	50.220219	44659000
2004-08-20	50.555557	54.594593	50.300301	54.209209	54.209209	22834300
2004-08-23	55.430431	56.796795	54.579578	54.754753	54.754753	18256100
2004-08-24	55.675674	55.855854	51.836838	52.487488	52.487488	15247300
2004-08-25	52.532532	54.054054	51.991993	53.053055	53.053055	9188600

In [4]:
```
# Overview of Stock value in Visualization
google_data.plot()
google_data['my col']=google_data['Volume']*0.5
google_data['my col'].plot()
```



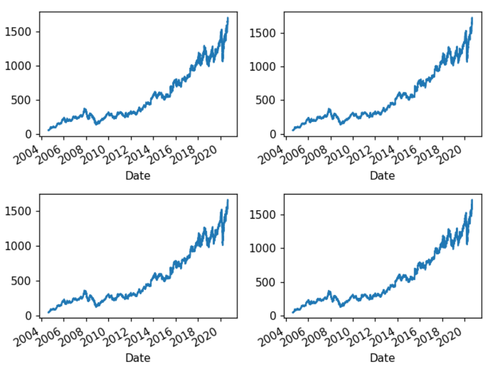
Out[4]: <AxesSubplot:xlabel='Date'>

In [5]:
```
# Stock price based on Timeline
fig1,ax1=plt.subplots()
google_data['my col'].plot(ax=ax1)
```

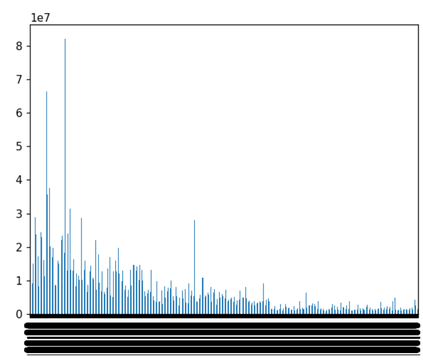


Out[5]: <AxesSubplot:xlabel='Date'>

In [6]:
```
# Visualization based on entire stock variance
fig2,ax2=plt.subplots(2,2)
ax2
google_data['Open'].plot(ax=ax2[0,0])
google_data['High'].plot(ax=ax2[0,1])
google_data['Low'].plot(ax=ax2[1,0])
google_data['Close'].plot(ax=ax2[1,1])
plt.tight_layout()
```



In [7]:
```
# Average Timeline value of stocks based on volume
fig3,ax3=plt.subplots()
google_data.loc[:'2020-05-04','Volume'].plot.bar(ax=ax3)
```



Out[7]: <AxesSubplot:xlabel='Date'>

In [ ]:
```
```