

STOCK_MARKET_ANALYSIS

May 14, 2024

```
[1]: import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
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```
[2]: import glob
```

```
[8]: data = (glob.glob(r"/Users/abhishekbhadani/Desktop/untitled folder 2/
↳S&P_resources (1)/individual_stocks_5yr/*csv"))
data
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 '/Users/abhishekbhadani/Desktop/untitled folder 2/S&P_resources

```
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(1)/individual_stocks_5yr/COF_data.csv',
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(1)/individual_stocks_5yr/COG_data.csv',
'/Users/abhishekbhadani/Desktop/untitled folder 2/S&P_resources
(1)/individual_stocks_5yr/F_data.csv']
```

```
[5]: all_data = pd.DataFrame()
```

```
[9]: company_list = [r'/Users/abhishekbhadani/Desktop/untitled folder 2/
↳S&P_resources (1)/individual_stocks_5yr/GOOG_data.csv',
r'/Users/abhishekbhadani/Desktop/untitled folder 2/
↳S&P_resources (1)/individual_stocks_5yr/MSFT_data.csv',
r'/Users/abhishekbhadani/Desktop/untitled folder 2/
↳S&P_resources (1)/individual_stocks_5yr/AAPL_data.csv',
r'/Users/abhishekbhadani/Desktop/untitled folder 2/
↳S&P_resources (1)/individual_stocks_5yr/AMGN_data.csv']
```

```
[10]: for file in company_list:
current_df = pd.read_csv(file)
all_data = current_df.append(all_data,ignore_index = True)
```

```
/var/folders/qm/_mqp4sjj7fsb8_kk_zvcs1d80000gn/T/ipykernel_5428/2137937602.py:3:
FutureWarning: The frame.append method is deprecated and will be removed from
pandas in a future version. Use pandas.concat instead.
```

```
all_data = current_df.append(all_data,ignore_index = True)
```

```
/var/folders/qm/_mqp4sjj7fsb8_kk_zvcs1d80000gn/T/ipykernel_5428/2137937602.py:3:
FutureWarning: The frame.append method is deprecated and will be removed from
pandas in a future version. Use pandas.concat instead.
```

```
all_data = current_df.append(all_data,ignore_index = True)
```

```
/var/folders/qm/_mqp4sjj7fsb8_kk_zvcs1d80000gn/T/ipykernel_5428/2137937602.py:3:
FutureWarning: The frame.append method is deprecated and will be removed from
pandas in a future version. Use pandas.concat instead.
```

```
all_data = current_df.append(all_data,ignore_index = True)
```

```
/var/folders/qm/_mqp4sjj7fsb8_kk_zvcs1d80000gn/T/ipykernel_5428/2137937602.py:3:
FutureWarning: The frame.append method is deprecated and will be removed from
pandas in a future version. Use pandas.concat instead.
```

```
all_data = current_df.append(all_data,ignore_index = True)
```

```
[11]: all_data
```

```
[11]:
```

	date	open	high	low	close	volume	Name
0	2013-02-08	85.61	87.165	85.390	86.77	7888920	AMGN
1	2013-02-11	85.48	85.980	84.590	84.92	7538344	AMGN
2	2013-02-12	85.00	85.230	84.280	84.54	4655977	AMGN
3	2013-02-13	84.96	85.130	84.450	84.94	7943132	AMGN
4	2013-02-14	86.00	86.398	84.609	84.72	6189005	AMGN
...
4747	2018-02-01	1162.61	1174.000	1157.520	1167.70	2412114	GOOG
4748	2018-02-02	1122.00	1123.070	1107.280	1111.90	4857943	GOOG
4749	2018-02-05	1090.60	1110.000	1052.030	1055.80	3798301	GOOG
4750	2018-02-06	1027.18	1081.710	1023.140	1080.60	3447956	GOOG
4751	2018-02-07	1081.54	1081.780	1048.260	1048.58	2369232	GOOG

```
[4752 rows x 7 columns]
```

```
[12]: all_data['Name'].unique()
```

```
[12]: array(['AMGN', 'AAPL', 'MSFT', 'GOOG'], dtype=object)
```

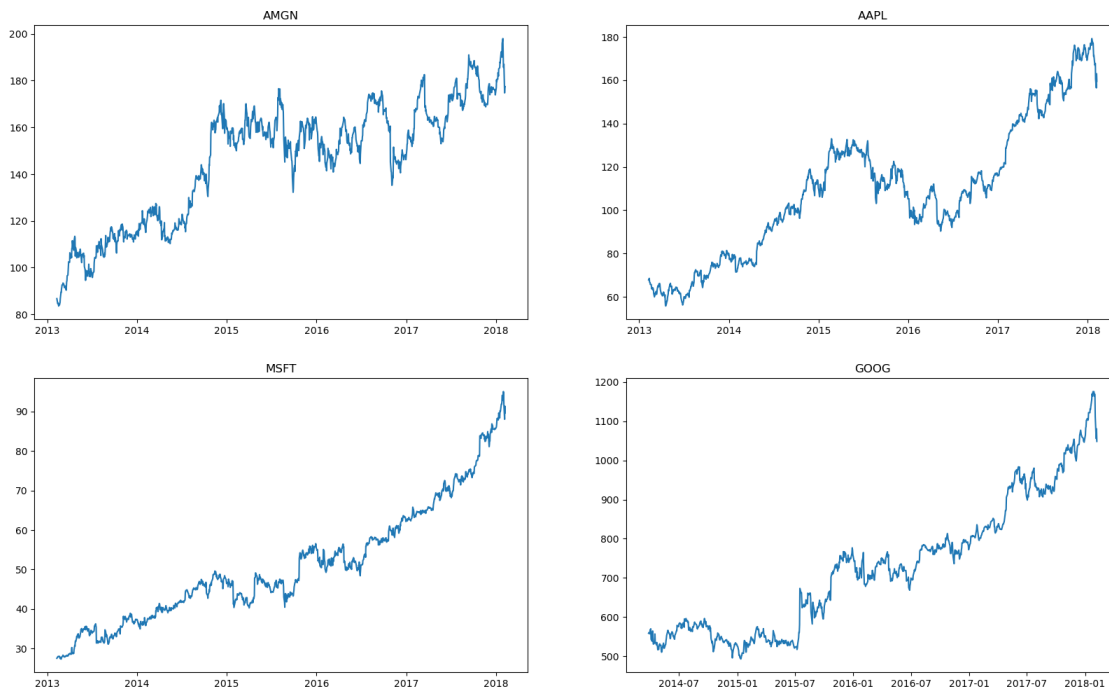
```
[14]: all_data.isnull().sum()
```

```
[14]: date      0  
open      0  
high      0  
low       0  
close     0  
volume    0  
Name      0  
dtype: int64
```

```
[16]: all_data['date'] = pd.to_datetime(all_data['date'])
```

```
[17]: tech_list = all_data['Name'].unique()
```

```
[21]: plt.figure(figsize = (20,12))  
for index , company in enumerate(tech_list,1):  
    plt.subplot(2,2,index)  
    filter1 = all_data['Name'] == company  
    df = all_data[filter1]  
    plt.plot(df['date'],df['close'])  
    plt.title(company)
```




```
[23]: all_data.head(15)
```

```
[23]:
```

	date	open	high	low	close	volume	Name
0	2013-02-08	85.61	87.1650	85.390	86.770	7888920	AMGN
1	2013-02-11	85.48	85.9800	84.590	84.920	7538344	AMGN
2	2013-02-12	85.00	85.2300	84.280	84.540	4655977	AMGN
3	2013-02-13	84.96	85.1300	84.450	84.940	7943132	AMGN
4	2013-02-14	86.00	86.3980	84.609	84.720	6189005	AMGN
5	2013-02-15	84.24	84.7199	83.320	83.610	5622197	AMGN
6	2013-02-19	83.51	84.2700	82.920	84.131	5944265	AMGN
7	2013-02-20	84.37	85.3400	84.240	84.650	6388286	AMGN
8	2013-02-21	84.59	85.3200	84.150	85.130	4094108	AMGN
9	2013-02-22	85.07	86.8800	85.070	86.820	4920383	AMGN
10	2013-02-25	89.30	91.2500	89.300	89.550	11421682	AMGN
11	2013-02-26	89.63	90.2100	88.660	89.470	4805195	AMGN
12	2013-02-27	89.15	91.3000	89.060	91.030	3549796	AMGN
13	2013-02-28	91.00	93.4200	90.870	91.550	6528557	AMGN
14	2013-03-01	91.16	92.7600	90.510	92.580	4317624	AMGN

```
[26]: # What is the moving average of the various stock
all_data['close'].rolling(window = 10).mean().head(14)
```

```
[26]:
```

0	NaN
1	NaN
2	NaN
3	NaN
4	NaN
5	NaN
6	NaN
7	NaN
8	NaN
9	85.0231
10	85.3011
11	85.7561
12	86.4051
13	87.0661

Name: close, dtype: float64

```
[27]: new_data = all_data.copy()
```

```
[31]: ma_day = [10,20,50]
```

```
[33]: for ma in ma_day:
      new_data['close_'+str(ma)] = new_data['close'].rolling(ma).mean()
```

```
[35]: new_data.tail(10)
```

```
[35]:
```

	date	open	high	low	close	volume	Name	close_10	\
4742	2018-01-25	1172.53	1175.94	1162.76	1170.37	1480540	GOOG	1140.921	
4743	2018-01-26	1175.08	1175.84	1158.11	1175.84	2018755	GOOG	1147.953	
4744	2018-01-29	1176.48	1186.89	1171.98	1175.58	1378913	GOOG	1153.285	
4745	2018-01-30	1167.83	1176.52	1163.52	1163.69	1556346	GOOG	1157.478	
4746	2018-01-31	1170.57	1173.00	1159.13	1169.94	1538688	GOOG	1161.274	
4747	2018-02-01	1162.61	1174.00	1157.52	1167.70	2412114	GOOG	1165.065	
4748	2018-02-02	1122.00	1123.07	1107.28	1111.90	4857943	GOOG	1162.504	
4749	2018-02-05	1090.60	1110.00	1052.03	1055.80	3798301	GOOG	1152.503	
4750	2018-02-06	1027.18	1081.71	1023.14	1080.60	3447956	GOOG	1143.566	
4751	2018-02-07	1081.54	1081.78	1048.26	1048.58	2369232	GOOG	1132.000	

	close_20	close_50
4742	1110.2520	1066.6514
4743	1116.5755	1069.6532
4744	1122.9475	1072.6448
4745	1128.8120	1075.5004
4746	1134.0590	1078.2492
4747	1138.3200	1081.2214
4748	1139.5950	1083.0918
4749	1137.2735	1083.5180
4750	1135.9565	1084.4108
4751	1133.0725	1084.5702

```
[36]: new_data.set_index('date', inplace = True)
```

```
[37]: new_data
```

```
[37]:
```

	open	high	low	close	volume	Name	close_10	\
date								
2013-02-08	85.61	87.165	85.390	86.77	7888920	AMGN	NaN	
2013-02-11	85.48	85.980	84.590	84.92	7538344	AMGN	NaN	
2013-02-12	85.00	85.230	84.280	84.54	4655977	AMGN	NaN	
2013-02-13	84.96	85.130	84.450	84.94	7943132	AMGN	NaN	
2013-02-14	86.00	86.398	84.609	84.72	6189005	AMGN	NaN	
...	
2018-02-01	1162.61	1174.000	1157.520	1167.70	2412114	GOOG	1165.065	
2018-02-02	1122.00	1123.070	1107.280	1111.90	4857943	GOOG	1162.504	
2018-02-05	1090.60	1110.000	1052.030	1055.80	3798301	GOOG	1152.503	
2018-02-06	1027.18	1081.710	1023.140	1080.60	3447956	GOOG	1143.566	
2018-02-07	1081.54	1081.780	1048.260	1048.58	2369232	GOOG	1132.000	

	close_20	close_50
date		
2013-02-08	NaN	NaN
2013-02-11	NaN	NaN
2013-02-12	NaN	NaN

2013-02-13	NaN	NaN
2013-02-14	NaN	NaN
...
2018-02-01	1138.3200	1081.2214
2018-02-02	1139.5950	1083.0918
2018-02-05	1137.2735	1083.5180
2018-02-06	1135.9565	1084.4108
2018-02-07	1133.0725	1084.5702

[4752 rows x 9 columns]

```
[39]: plt.figure(figsize = (20,12))

for index , company in enumerate(tech_list , 1):
    plt.subplot(2,2,index)
    filter1 = new_data['Name'] == company
    df = new_data[filter1]
    df[['close_10','close_20','close_50']].plot(ax = plt.gca())
    plt.title(company)
```



```
[40]: apple = all_data[all_data['Name'] == 'AAPL']
```

```
[41]: apple
```

	date	open	high	low	close	volume	Name	
[41]:	1259	2013-02-08	67.7142	68.4014	66.8928	67.8542	158168416	AAPL

1260	2013-02-11	68.0714	69.2771	67.6071	68.5614	129029425	AAPL
1261	2013-02-12	68.5014	68.9114	66.8205	66.8428	151829363	AAPL
1262	2013-02-13	66.7442	67.6628	66.1742	66.7156	118721995	AAPL
1263	2013-02-14	66.3599	67.3771	66.2885	66.6556	88809154	AAPL
...
2513	2018-02-01	167.1650	168.6200	166.7600	167.7800	47230787	AAPL
2514	2018-02-02	166.0000	166.8000	160.1000	160.5000	86593825	AAPL
2515	2018-02-05	159.1000	163.8800	156.0000	156.4900	72738522	AAPL
2516	2018-02-06	154.8300	163.7200	154.0000	163.0300	68243838	AAPL
2517	2018-02-07	163.0850	163.4000	159.0685	159.5400	51608580	AAPL

[1259 rows x 7 columns]

```
[42]: apple['close']
```

```
[42]: 1259      67.8542
      1260      68.5614
      1261      66.8428
      1262      66.7156
      1263      66.6556
      ...
      2513      167.7800
      2514      160.5000
      2515      156.4900
      2516      163.0300
      2517      159.5400
      Name: close, Length: 1259, dtype: float64
```

```
[44]: apple['Daily_return(in %)'] = apple['close'].pct_change()*100
```

```
/var/folders/qm/_mqp4sjj7fsb8_kk_zvcs1d80000gn/T/ipykernel_5428/3542914216.py:1:
SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead
```

```
See the caveats in the documentation: https://pandas.pydata.org/pandas-
docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
apple['Daily_return(in %)'] = apple['close'].pct_change()*100
```

```
[45]: import plotly.express as px
```

```
[46]: px.line(apple, x='date', y = 'Daily_return(in %)')
```

```
[48]: # performing resampling analysis of closing price
      apple.dtypes
```

```
[48]: date                datetime64[ns]
      open                float64
```

```

high          float64
low           float64
close         float64
volume        int64
Name          object
Daily_return(in %) float64
dtype: object

```

```
[49]: apple.set_index('date',inplace = True)
```

```
[50]: apple.head()
```

```
[50]:
```

	open	high	low	close	volume	Name	\
date							
2013-02-08	67.7142	68.4014	66.8928	67.8542	158168416	AAPL	
2013-02-11	68.0714	69.2771	67.6071	68.5614	129029425	AAPL	
2013-02-12	68.5014	68.9114	66.8205	66.8428	151829363	AAPL	
2013-02-13	66.7442	67.6628	66.1742	66.7156	118721995	AAPL	
2013-02-14	66.3599	67.3771	66.2885	66.6556	88809154	AAPL	


```

Daily_return(in %)
date
2013-02-08      NaN
2013-02-11      1.042235
2013-02-12     -2.506658
2013-02-13     -0.190297
2013-02-14     -0.089934

```

```
[52]: apple['close'].resample('M').mean()
```

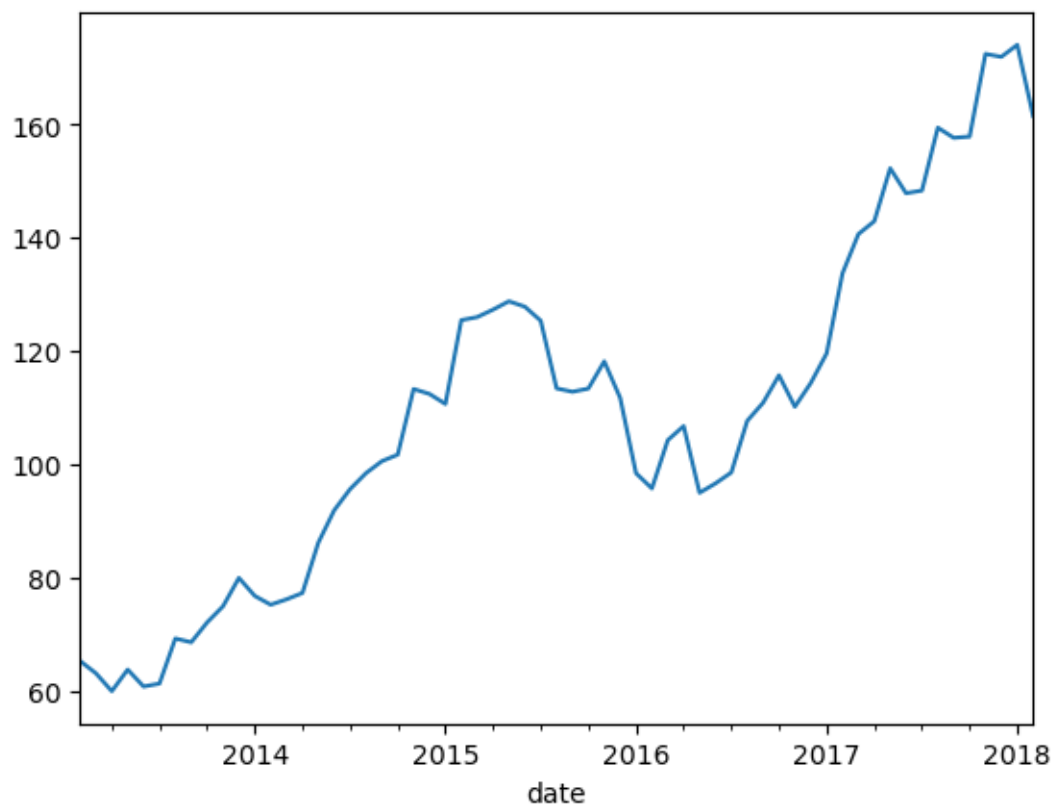
```
[52]:
```

date	
2013-02-28	65.306264
2013-03-31	63.120110
2013-04-30	59.966432
2013-05-31	63.778927
2013-06-30	60.791120
...	
2017-10-31	157.817273
2017-11-30	172.406190
2017-12-31	171.891500
2018-01-31	174.005238
2018-02-28	161.468000

Freq: M, Name: close, Length: 61, dtype: float64

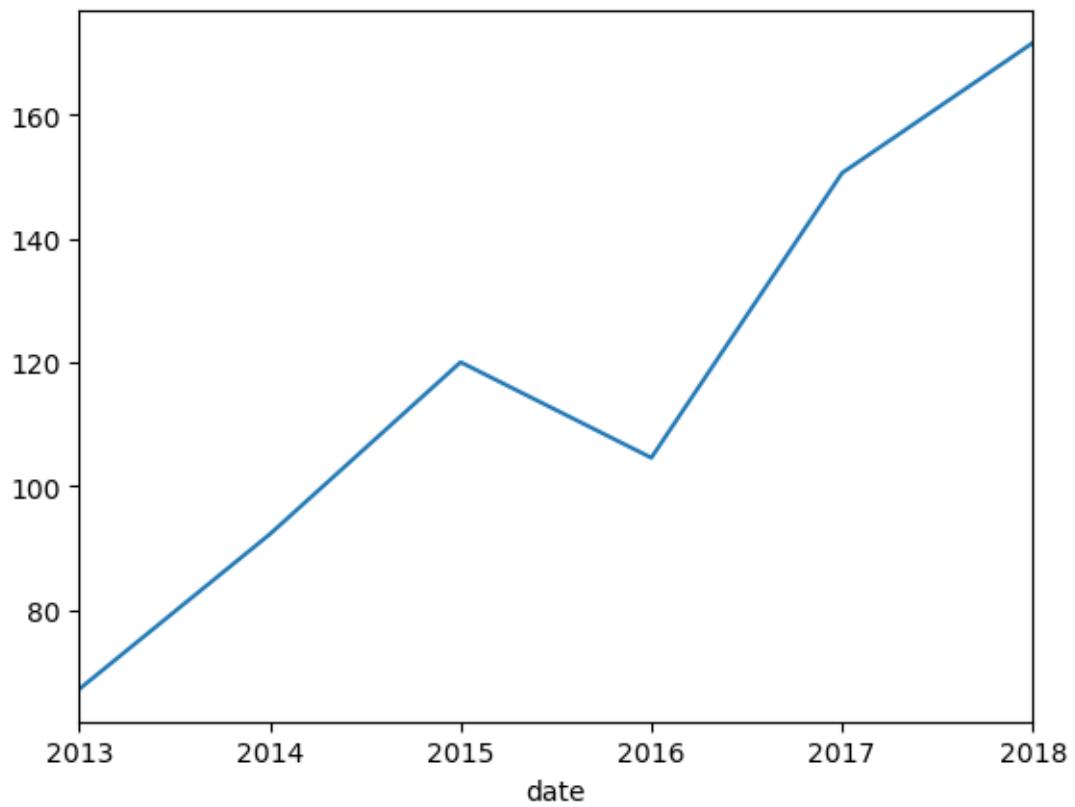
```
[53]: apple['close'].resample('M').mean().plot()
```

```
[53]: <AxesSubplot:xlabel='date'>
```



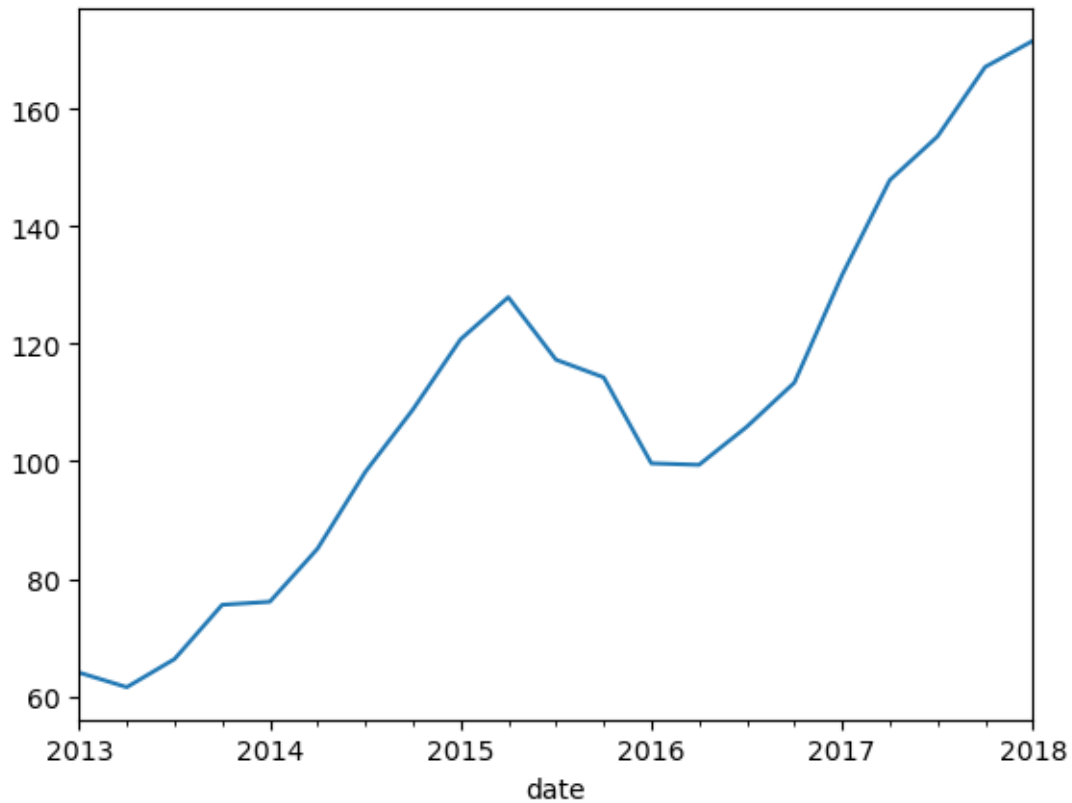
```
[54]: apple['close'].resample('Y').mean().plot()
```

```
[54]: <AxesSubplot:xlabel='date'>
```



```
[55]: apple['close'].resample('Q').mean().plot()
```

```
[55]: <AxesSubplot:xlabel='date'>
```



```
[56]: '''Checking if the closing prices of these
      tech companies (Amazon,Apple,Google,Microsoft)
      are correlated or not !!!'''
      company_list
```

```
[56]: ['/Users/abhishekbhadani/Desktop/untitled folder 2/S&P_resources
(1)/individual_stocks_5yr/GOOG_data.csv',
      '/Users/abhishekbhadani/Desktop/untitled folder 2/S&P_resources
(1)/individual_stocks_5yr/MSFT_data.csv',
      '/Users/abhishekbhadani/Desktop/untitled folder 2/S&P_resources
(1)/individual_stocks_5yr/AAPL_data.csv',
      '/Users/abhishekbhadani/Desktop/untitled folder 2/S&P_resources
(1)/individual_stocks_5yr/AMGN_data.csv']
```

```
[58]: com = [pd.read_csv(a) for a in company_list]
```

```
[61]: closing_price = pd.DataFrame()
      for name in com:
          closing_price['closing_price_'+name['Name'][0]] = name['close']
```

```
[63]: closing_price
```



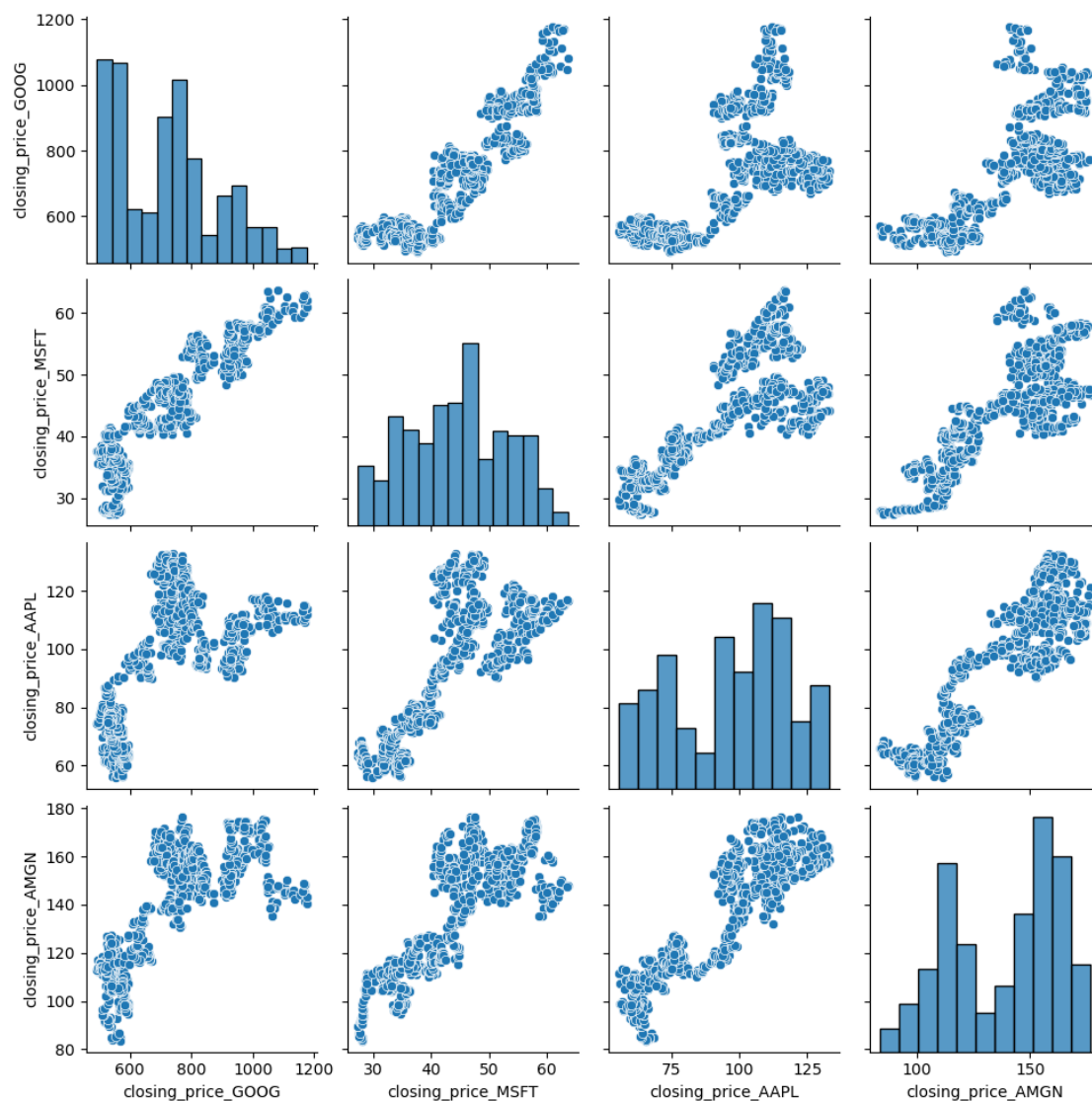
```
[63]:      closing_price_GOOG  closing_price_MSFT  closing_price_AAPL  \
0              558.46              27.55              67.8542
1              559.99              27.86              68.5614
2              556.97              27.88              66.8428
3              567.16              28.03              66.7156
4              567.00              28.04              66.6556
..              ...              ...              ...
970            1167.70              62.68             115.1900
971            1111.90              62.58             115.8200
972            1055.80              62.30             115.9700
973            1080.60              63.62             116.6400
974            1048.58              63.54             116.9500

      closing_price_AMGN
0              86.77
1              84.92
2              84.54
3              84.94
4              84.72
..              ...
970            148.69
971            150.39
972            149.37
973            147.74
974            147.22

[975 rows x 4 columns]
```

```
[64]: sns.pairplot(closing_price)
```

```
[64]: <seaborn.axisgrid.PairGrid at 0x7ff48701f040>
```



```
[65]: closing_price.corr()
```

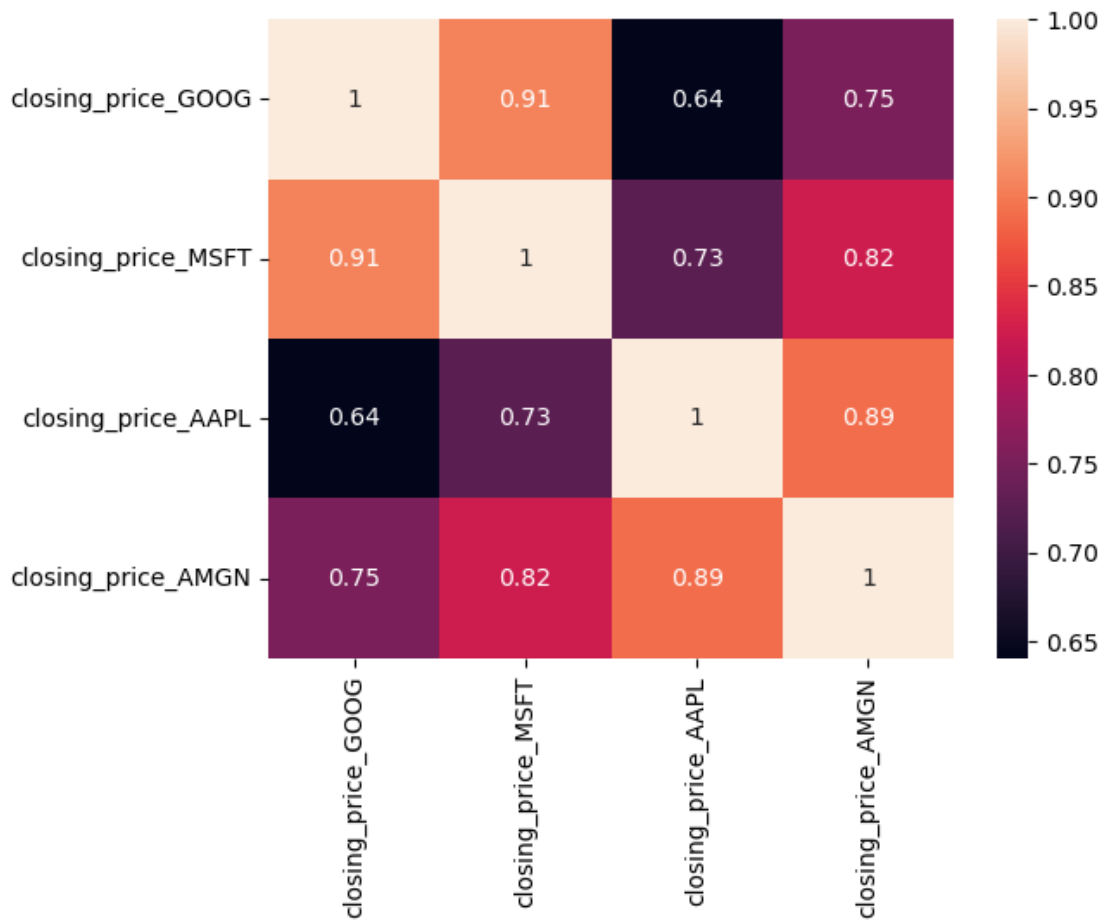
```
[65]:
```

	closing_price_GOOG	closing_price_MSFT	\
closing_price_GOOG	1.000000	0.907011	
closing_price_MSFT	0.907011	1.000000	
closing_price_AAPL	0.640522	0.725608	
closing_price_AMGN	0.751805	0.822473	

	closing_price_AAPL	closing_price_AMGN
closing_price_GOOG	0.640522	0.751805
closing_price_MSFT	0.725608	0.822473
closing_price_AAPL	1.000000	0.890040
closing_price_AMGN	0.890040	1.000000

```
[66]: sns.heatmap(closing_price.corr(),annot = True)
```

```
[66]: <AxesSubplot:>
```



```
[68]: # Whether daily change in the price of the stocks are correlated or not
a = closing_price['closing_price_AAPL']
```

```
[69]: b = closing_price['closing_price_AAPL'].shift(1)
```

```
[70]: a-b/a.shift(1)*100
```

```
[70]: 0      NaN
1    -31.4386
2    -33.1572
3    -33.2844
4    -33.3444
...
970   15.1900
```

```
971    15.8200
972    15.9700
973    16.6400
974    16.9500
Name: closing_price_AAPL, Length: 975, dtype: float64
```

```
[ ]:
```