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

In [3]: import glob
In [4]: glob.glob(r'C:\\Users\\Rahul\\OneDrive\\Desktop\\Data analyst project\\S&P 500 stoc
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                                      low close
                                                   volume Name
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                              27.71
                                    27.310
                                           27.55
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         2 2013-02-12 27.88
                              28.00
                                    27.750
                                           27.88
                                                  35990829
                                                            MSFT
         3 2013-02-13 27.93 28.11 27.880
                                           28.03
                                                            MSFT
                                                 41715530
          4 2013-02-14 27.92 28.06 27.870 28.04
                                                  32663174
                                                            MSFT
          5 2013-02-15 28.04 28.16 27.875 28.01 49650538
                                                            MSFT
In [12]:
         all_data['Name'].unique()
         array(['MSFT', 'GOOG', 'AMZN', 'AAPL'], dtype=object)
Out[12]:
 In [ ]:
In [
     ]:
In [ ]:
         #2.. Analysing change in price of the stock overtime
In [13]:
In [14]:
         all_data.isnull().sum() ## checking missing values
Out[14]:
         date
          open
                    0
          high
                    0
          low
                    0
          close
                    0
          volume
          Name
          dtype: int64
In [15]: all_data.dtypes ## checking data-types
Out[15]:
         date
                     object
                    float64
          open
         high
                    float64
          low
                    float64
                    float64
          close
          volume
                      int64
                     object
          Name
          dtype: object
In [16]:
         all_data['date'] = pd.to_datetime(all_data['date']) ## converting data-type of "dat
In [17]:
         all_data['date']
```

```
Out[17]: 0
                   2013-02-08
           1
                   2013-02-11
           2
                   2013-02-12
           3
                   2013-02-13
                   2013-02-14
                       . . .
           4747
                   2018-02-01
           4748
                   2018-02-02
           4749
                   2018-02-05
           4750
                   2018-02-06
           4751
                   2018-02-07
           Name: date, Length: 4752, dtype: datetime64[ns]
In [18]: tech_list = all_data['Name'].unique()
In [19]:
          tech_list
Out[19]:
           array(['MSFT', 'GOOG', 'AMZN', 'AAPL'], dtype=object)
 In [ ]:
           plt.figure(figsize=(20,12))
In [20]:
           for index , company in enumerate(tech_list , 1):
                plt.subplot(2 , 2 , index) ## creating subplot for each stock
                filter1 = all_data['Name']==company
                df = all_data[filter1]
                plt.plot(df['date'] , df['close']) ## plotting "date" vs "close"
                plt.title(company)
                                                             1200
                                                             1100
                                                             1000
                                                              900
                                                             800
                                                              700
                                                             600
                                                              500
                                                   2018
                                                                   2014-07 2015-01 2015-07 2016-01 2016-07 2017-01 2017-07 2018-01
            2013
                           2015
                                   2016
                                           2017
                                AMZN
                                                              180
         1400
                                                              160
         1200
         1000
                                                              120
         800
                                                              100
         600
         200
                   2014
                                                                                        2016
                                                                                                2017
                                                                                                        2018
 In [ ]:
```

```
In [
 In [ ]:
         #3.. moving average of the various stocks
In [21]:
In [22]:
         all_data.head(15)
Out[22]:
                   date
                           open
                                  high
                                          low
                                                close
                                                       volume Name
           0 2013-02-08
                        27.3500
                                27.71
                                       27.310
                                               27.550
                                                      33318306
                                                                MSFT
           1 2013-02-11 27.6500
                                27.92
                                       27.500
                                               27.860
                                                      32247549
                                                                 MSFT
           2 2013-02-12 27.8800 28.00 27.750
                                              27.880 35990829
                                                                MSFT
           3 2013-02-13 27.9300 28.11
                                       27.880
                                               28.030 41715530
                                                                 MSFT
             2013-02-14 27.9200 28.06
                                      27.870
                                              28.040 32663174
                                                                MSFT
           5 2013-02-15 28.0400 28.16 27.875
                                              28.010 49650538
                                                                 MSFT
             2013-02-19 27.8801 28.09
                                       27.800
                                              28.045
                                                      38804616
                                                                MSFT
             2013-02-20
                        28.1300 28.20
                                      27.830
                                               27.870
                                                      44109412
                                                                 MSFT
             2013-02-21 27.7400 27.74
                                       27.230
                                              27.490
                                                      49078338
                                                                MSFT
             2013-02-22 27.6800 27.76
                                       27.480
                                               27.760
                                                      31425726
                                                                 MSFT
             2013-02-25 27.9700 28.05 27.370
                                              27.370
                                                      48011248
                                                                MSFT
             2013-02-26 27.3800 27.60 27.340
                                              27.370
                                                      49917353
                                                                 MSFT
             2013-02-27 27.4200 28.00 27.330 27.810
                                                      36390889
                                                                MSFT
             2013-02-28 27.8800 27.97 27.740
                                                      35836861
                                              27.800
                                                                 MSFT
             2013-03-01 27.7200 27.98 27.520 27.950
                                                      34849287
                                                                 MSFT
 In [ ]:
In [23]:
         all_data['close'].rolling(window=10).mean().head(14)
```

```
Out[23]: 0
                    NaN
          1
                    NaN
          2
                    NaN
          3
                    NaN
                    NaN
          5
                    NaN
          6
                    NaN
          7
                    NaN
          8
                    NaN
          9
                27.8535
          10
                27.8355
          11
                27.7865
          12
                27.7795
          13
                27.7565
          Name: close, dtype: float64
In [24]: new_data = all_data.copy()
         #### now lets consider different windows of rolling ,ie 10 days ,20 days ,30 days
In [25]:
         ma_day = [10, 20, 50]
         for ma in ma_day:
             new_data['close_'+str(ma)] = new_data['close'].rolling(ma).mean()
In [26]:
         new_data.tail(7)
Out[26]:
                                  high
                date
                        open
                                            low
                                                  close
                                                         volume
                                                                 Name close 10 close 20 clo
                2018-
         4745
                      165.525 167.3700 164.7000 166.97 46048185
                                                                  AAPL
                                                                          174.263 174.3340 172
                01-30
                2018-
          4746
                      166.870 168.4417 166.5000 167.43 32478930
                                                                  AAPL
                                                                          173.096
                                                                                174.0925
                01-31
               2018-
         4747
                      AAPL
                                                                         171.948
                                                                                173.8700
                                                                                          172
                02-01
               2018-
          4748
                      166.000 166.8000
                                      160.1000 160.50
                                                        86593825
                                                                  AAPL
                                                                          170.152 173.2435
                                                                                          172
                02-02
                2018-
          4749
                      159.100 163.8800
                                      156.0000 156.49
                                                       72738522
                                                                  AAPL
                                                                          168.101
                                                                                172.3180 172
                02-05
                2018-
          4750
                      154.830 163.7200 154.0000 163.03
                                                        68243838
                                                                  AAPL
                                                                         166.700 171.7520 172
                02-06
                2018-
         4751
                      163.085 163.4000 159.0685 159.54 51608580
                                                                  AAPL
                                                                          165.232 171.0125 17
                02-07
In [ ]:
         new_data.set_index('date' , inplace=True)
```

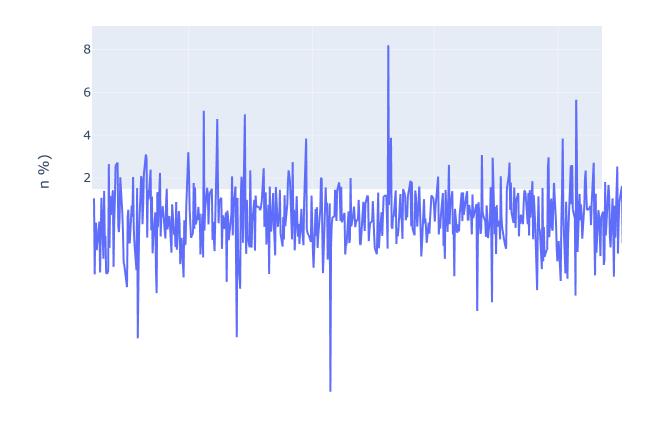
In [28]:	new_data									
Out[28]:		open	high	low	close	volume	Name	close_10	close_20	close_50
	date									
	2013- 02-08	27.350	27.71	27.3100	27.55	33318306	MSFT	NaN	NaN	NaN
	2013- 02-11	27.650	27.92	27.5000	27.86	32247549	MSFT	NaN	NaN	NaN
	2013- 02-12	27.880	28.00	27.7500	27.88	35990829	MSFT	NaN	NaN	NaN
	2013- 02-13	27.930	28.11	27.8800	28.03	41715530	MSFT	NaN	NaN	NaN
	2013- 02-14	27.920	28.06	27.8700	28.04	32663174	MSFT	NaN	NaN	NaN
	•••									
	2018- 02-01	167.165	168.62	166.7600	167.78	47230787	AAPL	171.948	173.8700	172.8252
	2018- 02-02	166.000	166.80	160.1000	160.50	86593825	AAPL	170.152	173.2435	172.6356
	2018- 02-05	159.100	163.88	156.0000	156.49	72738522	AAPL	168.101	172.3180	172.3026
	2018- 02-06	154.830	163.72	154.0000	163.03	68243838	AAPL	166.700	171.7520	172.0640
	2018- 02-07	163.085	163.40	159.0685	159.54	51608580	AAPL	165.232	171.0125	171.7554
	4752 ro	ws × 9 co	lumns							
In [29]:	new_da	ta.colum	ns							
Out[29]:	<pre>Index(['open', 'high', 'low', 'close', 'volume', 'Name', 'close_10',</pre>									
In [30]:	plt.fi	gure(fig	size=(2	0,12))						
	pl fi df df	t.subplo lter1 = = new_d	t(2 , 2 new_data ata[fil _10','c	, index) a['Name']: ter1] lose_20',	==compa	_list , 1) ny _50']].plo		t.gca())		



```
Out[35]:
                  date
                          open
                                  high
                                           low
                                                  close
                                                           volume Name
         0 2013-02-08 67.7142 68.4014
                                        66.8928
                                                67.8542 158168416
                                                                    AAPL
          1 2013-02-11 68.0714 69.2771
                                        67.6071 68.5614 129029425
                                                                    AAPL
         2 2013-02-12 68.5014 68.9114
                                        66.8205 66.8428
                                                        151829363
                                                                    AAPL
         3 2013-02-13 66.7442 67.6628 66.1742 66.7156 118721995
                                                                    AAPL
         apple['close']
In [36]:
Out[36]:
                   67.8542
                   68.5614
          1
          2
                   66.8428
          3
                   66.7156
                   66.6556
                    . . .
                  167.7800
          1254
          1255
                  160.5000
                 156.4900
          1256
          1257
                 163.0300
                 159.5400
          1258
         Name: close, Length: 1259, dtype: float64
In [37]:
         apple.head(4)
Out[37]:
                  date
                          open
                                  high
                                           low
                                                  close
                                                           volume
                                                                   Name
         0 2013-02-08 67.7142 68.4014 66.8928 67.8542 158168416
                                                                    AAPL
         1 2013-02-11 68.0714 69.2771
                                        67.6071 68.5614 129029425
                                                                    AAPL
                                        66.8205 66.8428 151829363
         2 2013-02-12 68.5014 68.9114
                                                                    AAPL
         3 2013-02-13 66.7442 67.6628 66.1742 66.7156 118721995
                                                                    AAPL
         apple['Daily return(in %)'] = apple['close'].pct_change() * 100
In [38]:
         ### pct_change() returns : Percentage change between the current and a prior elemen
In [39]:
         apple.head(4)
```

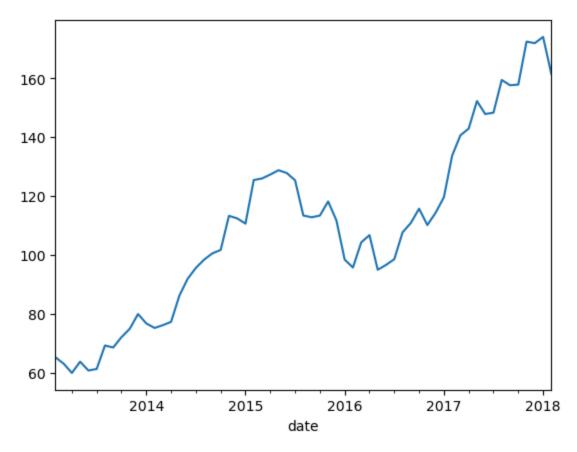
Out[39]:		date	open	high	low	close	volume	Name	Daily return(in %)
	0	2013-02- 08	67.7142	68.4014	66.8928	67.8542	158168416	AAPL	NaN
	1	2013-02- 11	68.0714	69.2771	67.6071	68.5614	129029425	AAPL	1.042235
	2	2013-02- 12	68.5014	68.9114	66.8205	66.8428	151829363	AAPL	-2.506658
	3	2013-02- 13	66.7442	67.6628	66.1742	66.7156	118721995	AAPL	-0.190297

In [ ]:	
In [40]:	<pre>import plotly.express as px</pre>
In [41]:	<pre>px.line(apple , x="date" , y="Daily return(in %)") ## Plotting Line-plot of "date"</pre>



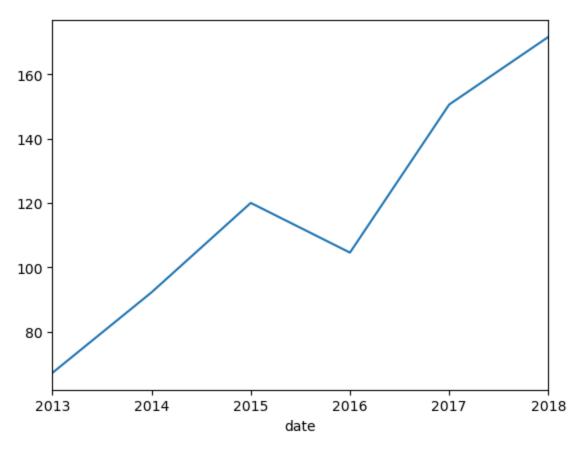
```
In [42]:
         #5.. Performing resampling analysis of closing price
In [43]: #Before doing resampling, first u have to make your date feature 'row-index' so that
         #a..yearly('Y') ,
         #b..quarterly('Q')
         #c..monthly('M') ,
         #d..weekly basis ('W'),
         #e..Daily_basis('D')
         #f..minutes ('3T'),
         #q..30 second bins('305')
         #h..resample('17min')
In [44]: apple.dtypes
                                 object
Out[44]: date
         open
                                float64
         high
                                float64
                                float64
          low
                                float64
          close
          volume
                                  int64
         Name
                                 object
         Daily return(in %)
                                float64
         dtype: object
In [45]: apple['date'] =pd.to_datetime(apple['date'])
In [46]:
         apple.dtypes
Out[46]: date
                                datetime64[ns]
          open
                                       float64
                                       float64
         high
                                       float64
          low
          close
                                       float64
         volume
                                         int64
         Name
                                        object
         Daily return(in %)
                                       float64
         dtype: object
In [47]: apple.head(4)
```

Out[47]:		dat	e ope	n high	n lov	w close	e volum	ne Nam	Daily return(in %)
	0	2013-02 0	2- 67.714	2 68.4014	4 66.892	8 67.8542	2 15816841	16 AAI	PL NaN
	1	2013-02 1	2- 68.071	4 69.277°	1 67.607	1 68.5614	1 12902942	25 AAI	PL 1.042235
	2	2013-02 1	2- 68.501	4 68.9114	4 66.820	5 66.8428	3 15182936	53 AAI	PL -2.506658
	3	2013-02 1	2- 66.744	2 67.6628	8 66.174	2 66.7156	5 11872199	95 AAI	PL -0.190297
n [48]:	appl	le.set_i	ndex('da	te' , inp	lace= <b>Tru</b>	ıe)			
n [49]:	appl	Le.head(	4)						
ut[49]:			open	high	low	close	volume	Name	Daily return(in %)
		date							
	201	3-02-08	67.7142	68.4014	66.8928	67.8542	158168416	AAPL	NaN
	2013	3-02-11	68.0714	69.2771	67.6071	68.5614	129029425	AAPL	1.042235
	201	3-02-12	68.5014	68.9114	66.8205	66.8428	151829363	AAPL	-2.506658
	2013	3-02-13	66.7442	67.6628	66.1742	66.7156	118721995	AAPL	-0.190297
n [50]:	appl	le['clos	e'].resa	mple('M')	.mean()	## resamp	ole data o	n month	ly basis
ut[50]:	2013 2013 2013 2013 2013 2013 2013 2014 2018	3-02-28 3-03-31 3-04-30 3-05-31 3-06-30 7-10-31 7-11-30 7-12-31 8-01-31 8-02-28	63.1 59.9 63.7 60.7  157.8 172.4 171.8 174.0 161.4	06264 20110 66432 78927 91120 17273 06190 91500 05238 68000 e, Length	n: 61, dt	type: flo	at64		
n [51]:	appl	le['clos	e'].resa	mple('M')	.mean().	plot()			
ut[51]:	<axe< th=""><td>esSubplo</td><td>t:xlabel</td><td>='date'&gt;</td><td></td><td></td><td></td><td></td><td></td></axe<>	esSubplo	t:xlabel	='date'>					

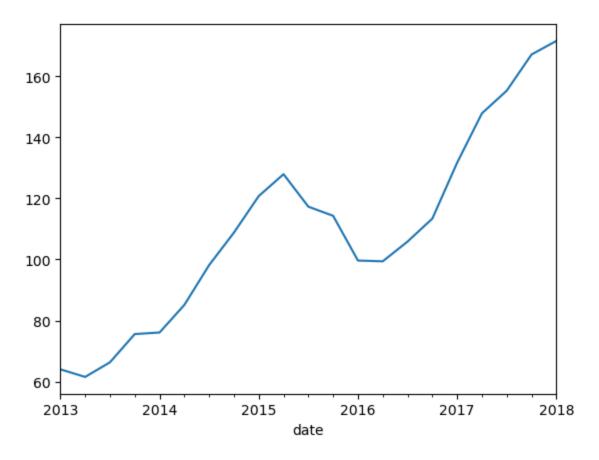


```
In [ ]:
         apple['close'].resample('Y').mean() ## resample data on Yearly basis ..
In [52]:
Out[52]:
         date
          2013-12-31
                         67.237839
          2014-12-31
                         92.264531
          2015-12-31
                        120.039861
          2016-12-31
                        104.604008
          2017-12-31
                        150.585080
          2018-12-31
                        171.594231
          Freq: A-DEC, Name: close, dtype: float64
         apple['close'].resample('Y').mean().plot()
In [53]:
```

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



apple['close'].resample('Q').mean() ## resample data on Quarterly basis .. In [54]: Out[54]: date 2013-03-31 64.020291 61.534692 2013-06-30 2013-09-30 66.320670 2013-12-31 75.567478 2014-03-31 76.086293 2014-06-30 85.117475 2014-09-30 98.163311 2014-12-31 108.821016 2015-03-31 120.776721 2015-06-30 127.937937 2015-09-30 117.303438 2015-12-31 114.299297 2016-03-31 99.655082 2016-06-30 99.401250 2016-09-30 105.866094 2016-12-31 113.399048 2017-03-31 131.712500 2017-06-30 147.875397 2017-09-30 155.304603 2017-12-31 167.148254 2018-03-31 171.594231 Freq: Q-DEC, Name: close, dtype: float64 In [55]: apple['close'].resample('Q').mean().plot() Out[55]: <AxesSubplot:xlabel='date'>

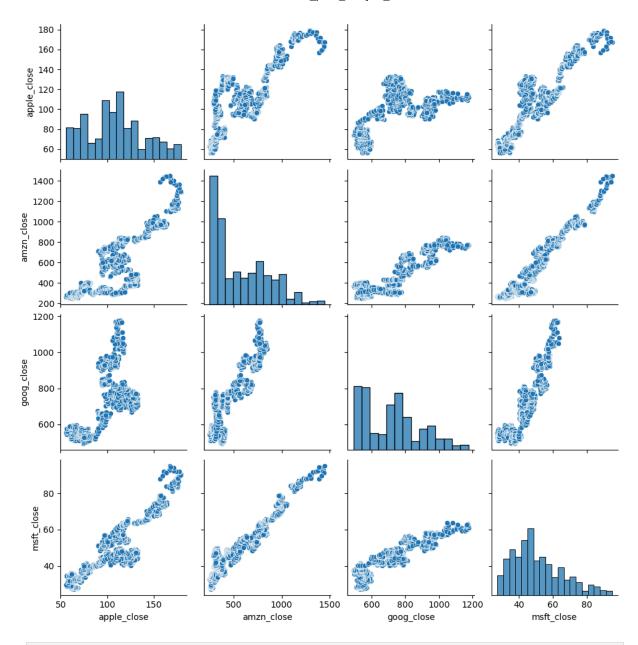


```
In [
 In [ ]:
 In [
         #6.. Whether closing prices of these tech companies (Amazon, Apple, Google, Microsoft)
         company_list
In [57]:
Out[57]:
         ['C:\\\Users\\\Rahul\\\OneDrive\\\Desktop\\\Data analyst project\\\\S&P 500 s
         tock return\\\individual_stocks_5yr\\\AAPL_data.csv',
           'C:\\\Users\\\Rahul\\\OneDrive\\\Desktop\\\Data analyst project\\\\S&P 500 s
         tock return\\\individual_stocks_5yr\\\AMZN_data.csv',
           C:\\\Users\\\\Rahul\\\OneDrive\\\Desktop\\\Data analyst project\\\\S&P 500 s
         tock return\\\individual_stocks_5yr\\\\G00G_data.csv',
           C:\\\Users\\\Rahul\\\OneDrive\\\Desktop\\\Data analyst project\\\\S&P 500 s
         tock return\\\individual_stocks_5yr\\\MSFT_data.csv']
In [58]:
         company_list[0]
         'C:\\\Users\\\Rahul\\\OneDrive\\\Desktop\\\Data analyst project\\\\S&P 500 st
Out[58]:
         ock return\\\individual_stocks_5yr\\\AAPL_data.csv'
In [59]: app = pd.read_csv(company_list[0])
         amzn = pd.read_csv(company_list[1])
         google = pd.read_csv(company_list[2])
         msft = pd.read_csv(company_list[3])
```

Out[63]:		apple_close	amzn_close	goog_close	msft_close
	0	67.8542	261.95	558.46	27.55
	1	68.5614	257.21	559.99	27.86
	2	66.8428	258.70	556.97	27.88
	3	66.7156	269.47	567.16	28.03
	4	66.6556	269.24	567.00	28.04
	•••				
	1254	167.7800	1390.00	NaN	94.26
	1255	160.5000	1429.95	NaN	91.78
	1256	156.4900	1390.00	NaN	88.00
	1257	163.0300	1442.84	NaN	91.33
	1258	159.5400	1416.78	NaN	89.61

1259 rows × 4 columns

Out[65]: <seaborn.axisgrid.PairGrid at 0x22705514520>



In [ ]:

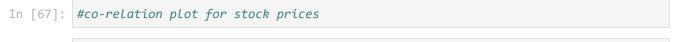
In [ ]:

In [66]: closing\_price.corr()

Out[66]:

	apple_close	amzn_close	goog_close	msft_close
apple_close	1.000000	0.819078	0.640522	0.899689
amzn_close	0.819078	1.000000	0.888456	0.955977
goog_close	0.640522	0.888456	1.000000	0.907011
msft_close	0.899689	0.955977	0.907011	1.000000

In [ ]:



In [68]: sns.heatmap(closing\_price.corr() , annot=True)

Out[68]: <AxesSubplot:>



In [69]: #Conclusions :
 #Closing price of Google and Microsoft are well correlated
 #& Closing price of Amazon and Microsoft have a co-relation of 0.96

In [ ]:

In [70]: #7.. analyse Whether Daily change in Closing price of stocks or Daily Returns in St

In [71]: closing\_price

Out[71]:		apple_close	amzn_close	goog_close	msft_close
	0	67.8542	261.95	558.46	27.55
	1	68.5614	257.21	559.99	27.86
	2	66.8428	258.70	556.97	27.88
	3	66.7156	269.47	567.16	28.03
	4	66.6556	269.24	567.00	28.04
	•••				
	1254	167.7800	1390.00	NaN	94.26
	1255	160.5000	1429.95	NaN	91.78
	1256	156.4900	1390.00	NaN	88.00
	1257	163.0300	1442.84	NaN	91.33
	1258	159.5400	1416.78	NaN	89.61

1259 rows × 4 columns

```
In [72]:
         closing_price['apple_close']
Out[72]: 0
                   67.8542
                   68.5614
          1
          2
                   66.8428
                   66.7156
          3
                   66.6556
                  167.7800
          1254
          1255
                  160.5000
          1256
                  156.4900
          1257
                  163.0300
          1258
                  159.5400
          Name: apple_close, Length: 1259, dtype: float64
         closing_price['apple_close'].shift(1)
In [73]:
Out[73]:
                       NaN
                   67.8542
          1
          2
                   68.5614
          3
                   66.8428
                   66.7156
                  167.4300
          1254
          1255
                  167.7800
          1256
                  160.5000
          1257
                  156.4900
          1258
                  163.0300
          Name: apple_close, Length: 1259, dtype: float64
In [74]:
         (closing_price['apple_close'] - closing_price['apple_close'].shift(1))/closing_pric
```

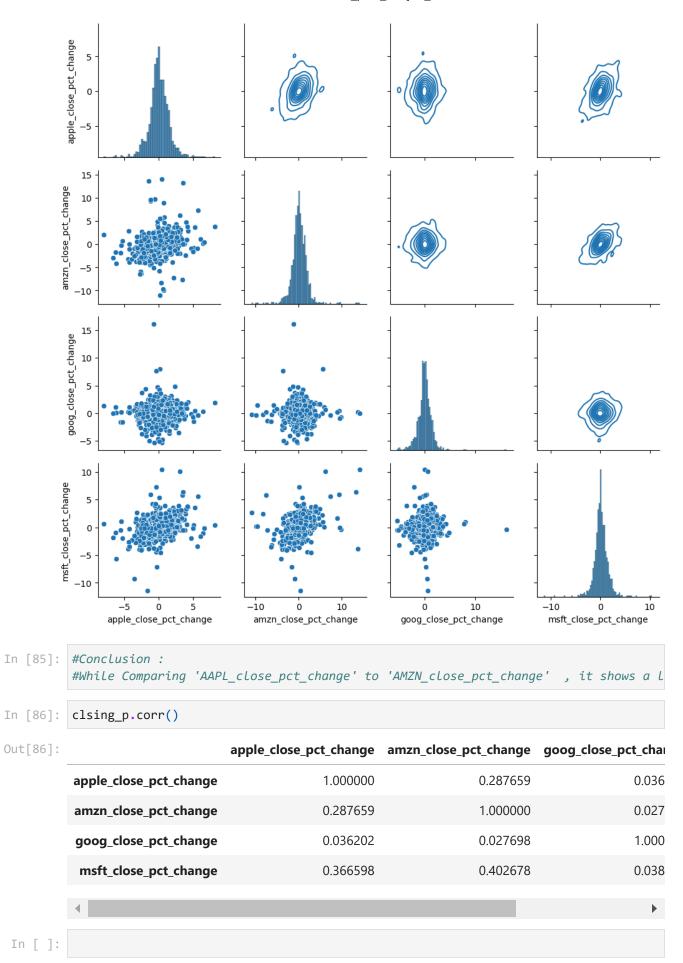
```
Out[74]: 0
                        NaN
          1
                  1.042235
          2
                  -2.506658
          3
                  -0.190297
                  -0.089934
                     . . .
                  0.209043
          1254
          1255
                 -4.339015
          1256
                 -2.498442
          1257
                  4.179181
          1258
                  -2.140710
          Name: apple_close, Length: 1259, dtype: float64
In [75]: for col in closing_price.columns:
              closing_price[col + '_pct_change'] = (closing_price[col] - closing_price[col].s
          closing_price
In [76]:
Out[76]:
                 apple_close amzn_close goog_close msft_close apple_close_pct_change amzn_close
             0
                    67.8542
                                  261.95
                                              558.46
                                                          27.55
                                                                                  NaN
                    68.5614
                                 257.21
                                              559.99
                                                          27.86
                                                                               1.042235
             2
                    66.8428
                                 258.70
                                              556.97
                                                          27.88
                                                                              -2.506658
             3
                    66.7156
                                  269.47
                                              567.16
                                                          28.03
                                                                              -0.190297
             4
                    66.6556
                                  269.24
                                                          28.04
                                                                              -0.089934
                                              567.00
          1254
                   167.7800
                                1390.00
                                               NaN
                                                          94.26
                                                                              0.209043
          1255
                   160.5000
                                               NaN
                                                          91.78
                                 1429.95
                                                                              -4.339015
          1256
                   156.4900
                                1390.00
                                               NaN
                                                          88.00
                                                                              -2.498442
          1257
                   163.0300
                                 1442.84
                                               NaN
                                                          91.33
                                                                              4.179181
          1258
                   159.5400
                                1416.78
                                               NaN
                                                          89.61
                                                                              -2.140710
         1259 rows × 8 columns
         closing_price.columns
In [77]:
Out[77]: Index(['apple_close', 'amzn_close', 'goog_close', 'msft_close',
                  'apple_close_pct_change', 'amzn_close_pct_change',
                  'goog_close_pct_change', 'msft_close_pct_change'],
                 dtype='object')
In [78]: clsing_p = closing_price[['apple_close_pct_change', 'amzn_close_pct_change',
                  'goog_close_pct_change', 'msft_close_pct_change']]
In [79]: clsing_p
```

Out[79]:		apple_close_pct_change	amzn_close_pct_change	goog_close_pct_change	msft_close_po
	0	NaN	NaN	NaN	
	1	1.042235	-1.809506	0.273968	
	2	-2.506658	0.579293	-0.539295	
	3	-0.190297	4.163123	1.829542	
	4	-0.089934	-0.085353	-0.028211	
	•••				
	1254	0.209043	-4.196734	NaN	
	1255	-4.339015	2.874101	NaN	
	1256	-2.498442	-2.793804	NaN	
	1257	4.179181	3.801439	NaN	
	1258	-2.140710	-1.806160	NaN	

1259 rows × 4 columns

```
In [80]: ### since we have used Pairplot already , lets use extension of Pairplot , ie Pairg
In [81]: #Pairplot : we have histogram on diagonals & scatterplot/kde/any_other_plot which t
In [82]: #Pairgrid : Once we create grid , we can set plot as per our need :
In [83]: #ie , if we have 4 features , it creates total 16 graphs/plots or matrices of 4*4
In [84]: g = sns.PairGrid(data= clsing_p)
g.map_diag(sns.histplot)
g.map_lower(sns.scatterplot)
g.map_upper(sns.kdeplot)
```

Out[84]: <seaborn.axisgrid.PairGrid at 0x22706510ca0>



In [ ]:	
In [ ]:	