

```
In [ ]: import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
import plotly.graph_objects as go
```

```
In [ ]: bitcoin = pd.read_csv('D:\python\data\coin_Bitcoin.csv')
ethereum = pd.read_csv('D:\python\data\coin_Ethereum.csv')
ethereum = ethereum.sort_values('Date')
Litecoin = pd.read_csv('D:\python\data\coin_Litecoin.csv')
Monero = pd.read_csv('D:\python\data\coin_Monero.csv')
Ripple = pd.read_csv('D:\python\data\coin_Ripple.csv')
Ripple = Ripple.sort_values('Date')
Solana = pd.read_csv('D:\python\data\coin_Solana.csv')
Stellar = pd.read_csv('D:\python\data\coin_Stellar.csv')
Tether = pd.read_csv('D:\python\data\coin_Tether.csv')
Tron = pd.read_csv('D:\python\data\coin_Tron.csv')
```

```
In [ ]: bitcoin['Date'] = pd.to_datetime(bitcoin['Date'])
ethereum['Date'] = pd.to_datetime(ethereum['Date'])
Litecoin['Date'] = pd.to_datetime(Litecoin['Date'])
Monero['Date'] = pd.to_datetime(Monero['Date'])
Ripple['Date'] = pd.to_datetime(Ripple['Date'])
Solana['Date'] = pd.to_datetime(Solana['Date'])
Stellar['Date'] = pd.to_datetime(Stellar['Date'])
Tether['Date'] = pd.to_datetime(Tether['Date'])
Tron['Date'] = pd.to_datetime(Tron['Date'])
```

```
In [ ]: bitcoin.head()
```

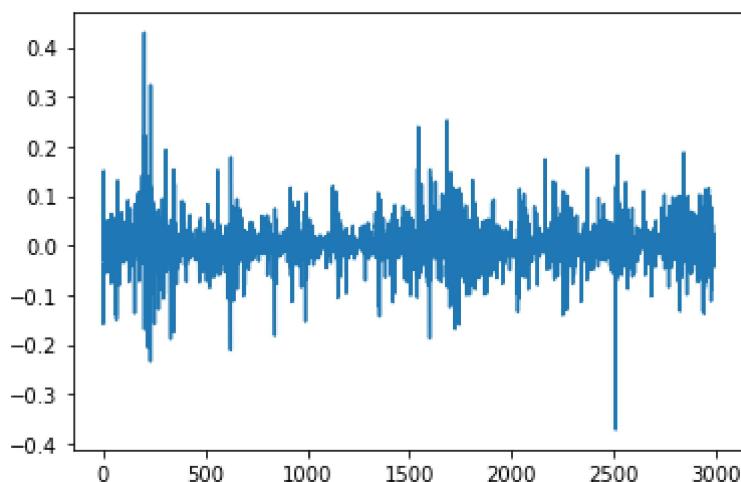
	SNo	Name	Symbol	Date	High	Low	Open	Close	Volume	Marketcap
<b>0</b>	1	Bitcoin	BTC	2013-04-29 23:59:59	147.488007	134.000000	134.444000	144.539993	0.0	1.603769e+0
<b>1</b>	2	Bitcoin	BTC	2013-04-30 23:59:59	146.929993	134.050003	144.000000	139.000000	0.0	1.542813e+0
<b>2</b>	3	Bitcoin	BTC	2013-05-01 23:59:59	139.889999	107.720001	139.000000	116.989998	0.0	1.298955e+0
<b>3</b>	4	Bitcoin	BTC	2013-05-02 23:59:59	125.599998	92.281898	116.379997	105.209999	0.0	1.168517e+0
<b>4</b>	5	Bitcoin	BTC	2013-05-03 23:59:59	108.127998	79.099998	106.250000	97.750000	0.0	1.085995e+0

```
In [ ]: bitcoin.describe()
```

	SNo	High	Low	Open	Close	Volume	Marketcap
<b>count</b>	2991.000000	2991.000000	2991.000000	2991.000000	2991.000000	2.991000e+03	2.991000e+01
<b>mean</b>	1496.000000	6893.326038	6486.009539	6700.146240	6711.290443	1.090633e+10	1.208761e+1
<b>std</b>	863.571653	11642.832456	10869.032130	11288.043736	11298.141921	1.888895e+10	2.109438e+1
<b>min</b>	1.000000	74.561096	65.526001	68.504997	68.431000	0.000000e+00	7.784112e+01
<b>25%</b>	748.500000	436.179001	422.879486	430.445496	430.569489	3.036725e+07	6.305579e+01
<b>50%</b>	1496.000000	2387.610107	2178.500000	2269.889893	2286.409912	9.460360e+08	3.741503e+10
<b>75%</b>	2243.500000	8733.926948	8289.800459	8569.656494	8576.238715	1.592015e+10	1.499957e+11
<b>max</b>	2991.000000	64863.098908	62208.964366	63523.754869	63503.457930	3.509679e+11	1.186364e+12

```
In [ ]: bitcoin['return'] = bitcoin['Close'].pct_change()
bitcoin['return'].plot()
```

Out[ ]: <AxesSubplot:>



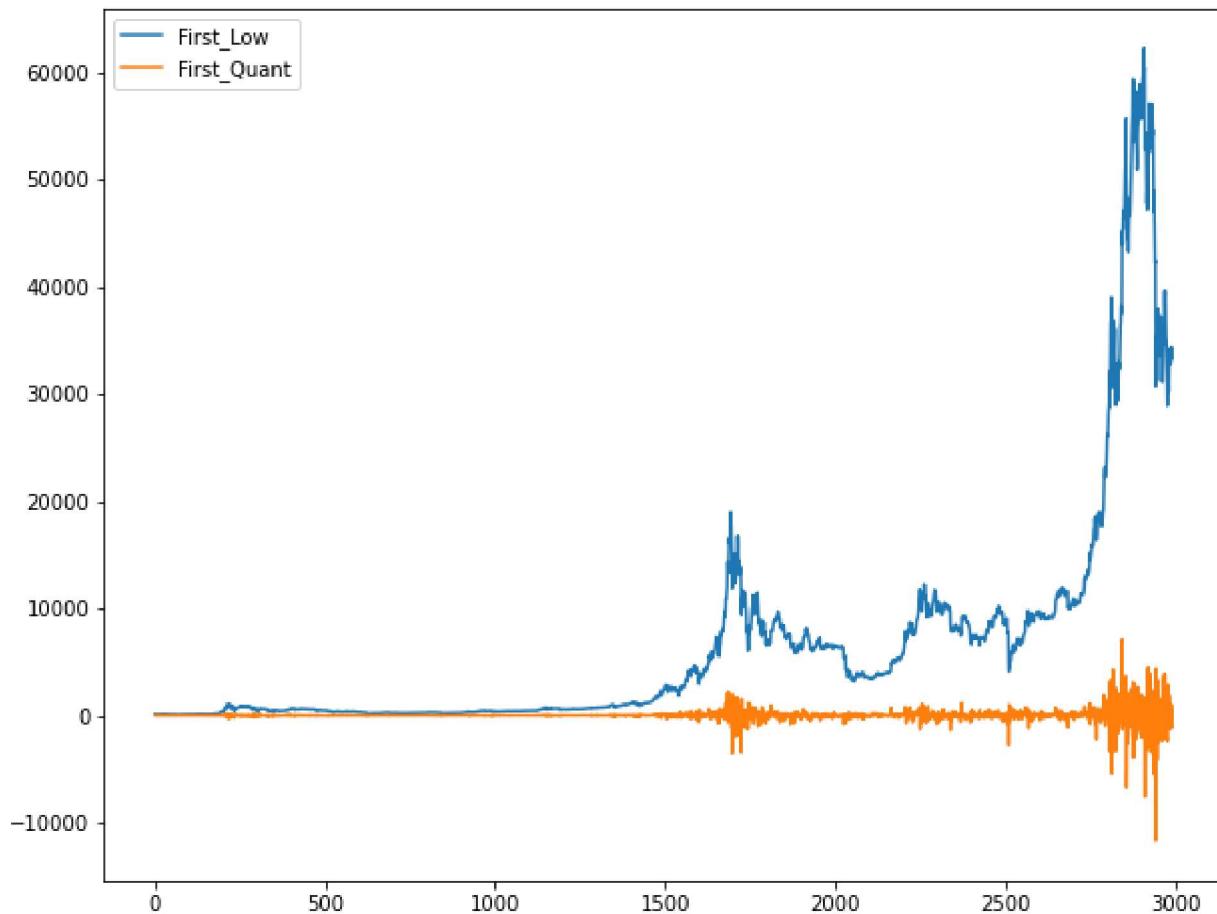
```
In [ ]: (bitcoin['return']>0).value_counts()
```

Out[ ]: True 1615  
False 1376  
Name: return, dtype: int64

```
In [ ]: bitcoin['Quantum'] = bitcoin['Low'].diff()
a = bitcoin[['Low', 'Quantum']]
```

```
In [ ]: ax = a.plot(figsize=(10,8))
ax.legend(['First_Low', 'First_Quant'])
```

Out[ ]: <matplotlib.legend.Legend at 0x1fc00086940>



```
In [ ]: bitcoin.head()
```

	SNo	Name	Symbol	Date	High	Low	Open	Close	Volume	Marketcap
0	1	Bitcoin	BTC	2013-04-29 23:59:59	147.488007	134.000000	134.444000	144.539993	0.0	1.603769e+00
1	2	Bitcoin	BTC	2013-04-30 23:59:59	146.929993	134.050003	144.000000	139.000000	0.0	1.542813e+00
2	3	Bitcoin	BTC	2013-05-01 23:59:59	139.889999	107.720001	139.000000	116.989998	0.0	1.298955e+00
3	4	Bitcoin	BTC	2013-05-02 23:59:59	125.599998	92.281898	116.379997	105.209999	0.0	1.168517e+00
4	5	Bitcoin	BTC	2013-05-03 23:59:59	108.127998	79.099998	106.250000	97.750000	0.0	1.085995e+00

```
In [ ]: Litecoin.head()
```

	SNo	Name	Symbol	Date	High	Low	Open	Close	Volume	Marketcap
--	-----	------	--------	------	------	-----	------	-------	--------	-----------

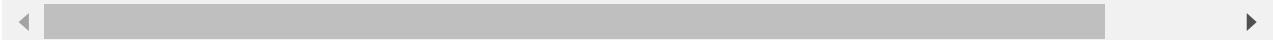
SNo	Name	Symbol	Date	High	Low	Open	Close	Volume	Marketcap
0	1	Litecoin	LTC 2013-04-29 23:59:59	4.57360	4.22564	4.36676	4.38390	0.0	7.538896e+07
1	2	Litecoin	LTC 2013-04-30 23:59:59	4.57238	4.16896	4.40352	4.29649	0.0	7.402092e+07
2	3	Litecoin	LTC 2013-05-01 23:59:59	4.35686	3.52029	4.28954	3.80101	0.0	6.560460e+07
3	4	Litecoin	LTC 2013-05-02 23:59:59	4.03930	3.00717	3.78002	3.37198	0.0	5.828798e+07
4	5	Litecoin	LTC 2013-05-03 23:59:59	3.45361	2.39594	3.39044	3.04491	0.0	5.269485e+07

In [ ]:

ethereum.head()

Out[ ]:

SNo	Name	Symbol	Date	High	Low	Open	Close	Volume
146	147	Ethereum	ETH 2016-01-01 23:59:00	0.954822	0.931442	0.933712	0.948024	206062 7
512	513	Ethereum	ETH 2017-01-01 23:59:00	8.471230	7.982310	7.982310	8.172570	14731700 7
877	878	Ethereum	ETH 2018-01-01 23:59:00	782.530029	742.004028	755.757019	772.640991	2595760128 7
1242	1243	Ethereum	ETH 2019-01-01 23:59:00	141.397504	132.650705	133.418145	140.819413	2258709868 1
1607	1608	Ethereum	ETH 2020-01-01 23:59:00	132.835357	129.198285	129.630656	130.802008	7935230330 1



In [ ]:

Monero.head()

Out[ ]:

SNo	Name	Symbol	Date	High	Low	Open	Close	Volume	Marketcap
0	1	Monero	XMR 2014-05-22 23:59:59	2.18888	1.35909	1.58940	2.09558	132918.0	1.855608e+06
1	2	Monero	XMR 2014-05-23 23:59:59	3.43437	2.05104	2.05104	2.96302	266852.0	2.692180e+06
2	3	Monero	XMR 2014-05-24 23:59:59	4.01424	2.61778	2.92039	3.70245	248028.0	3.456658e+06
3	4	Monero	XMR 2014-05-25 23:59:59	4.04303	2.80330	4.04303	3.13856	283545.0	2.993339e+06

SNo	Name	Symbol	Date	High	Low	Open	Close	Volume	Marketcap
4	5	Monero	XMR 2014-05-26 23:59:59	3.76235	2.31202	3.21897	3.02186	220148.0	2.946133e+06

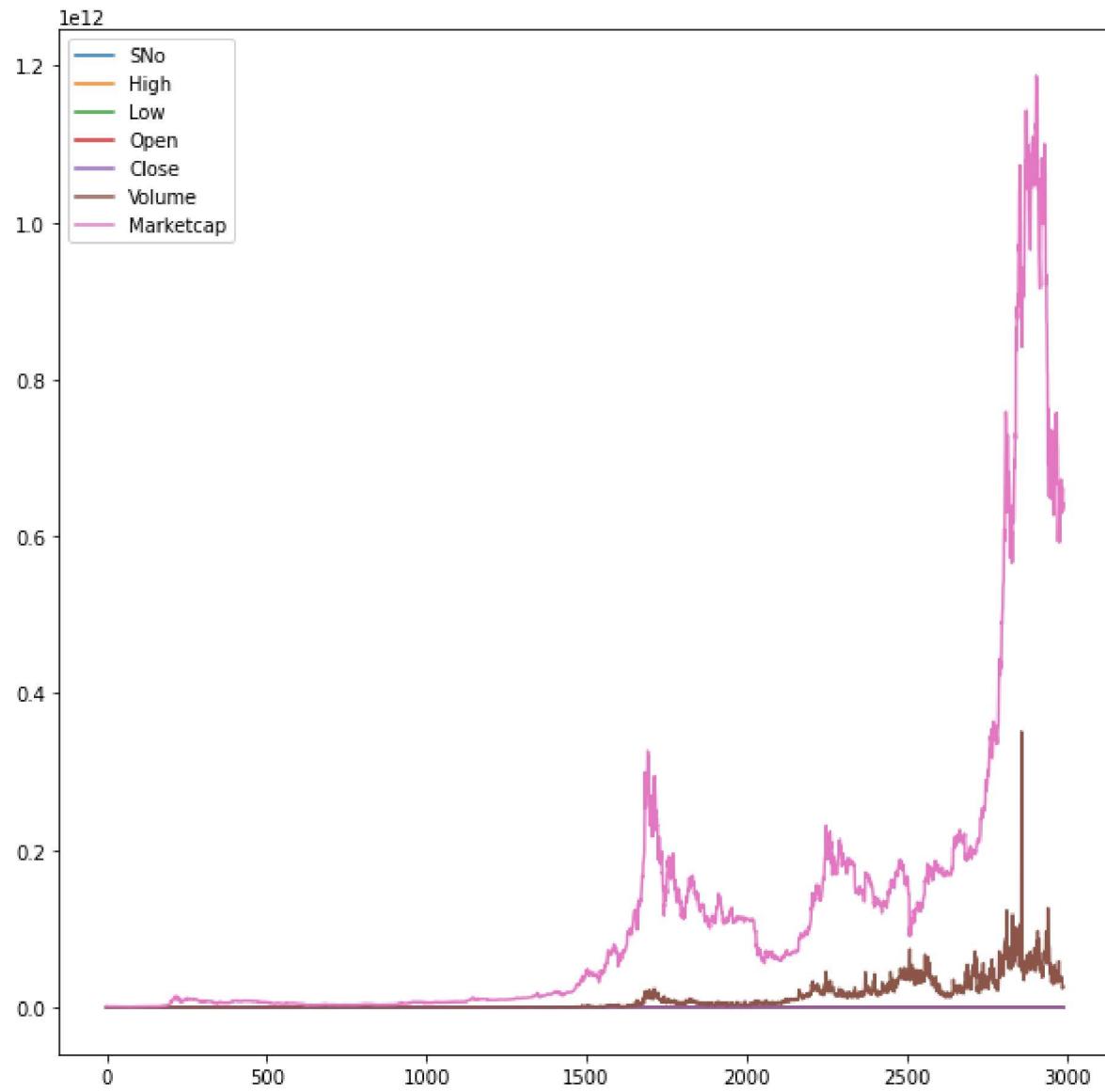
```
In [ ]: ethereum['Date'] = pd.to_datetime(ethereum['Date'])
ethereum.head()
```

SNo	Name	Symbol	Date	High	Low	Open	Close	Volume
146	147	Ethereum	ETH 2016-01-01 23:59:00	0.954822	0.931442	0.933712	0.948024	206062 7
512	513	Ethereum	ETH 2017-01-01 23:59:00	8.471230	7.982310	7.982310	8.172570	14731700 7
877	878	Ethereum	ETH 2018-01-01 23:59:00	782.530029	742.004028	755.757019	772.640991	2595760128 7
1242	1243	Ethereum	ETH 2019-01-01 23:59:00	141.397504	132.650705	133.418145	140.819413	2258709868 1
1607	1608	Ethereum	ETH 2020-01-01 23:59:00	132.835357	129.198285	129.630656	130.802008	7935230330 1



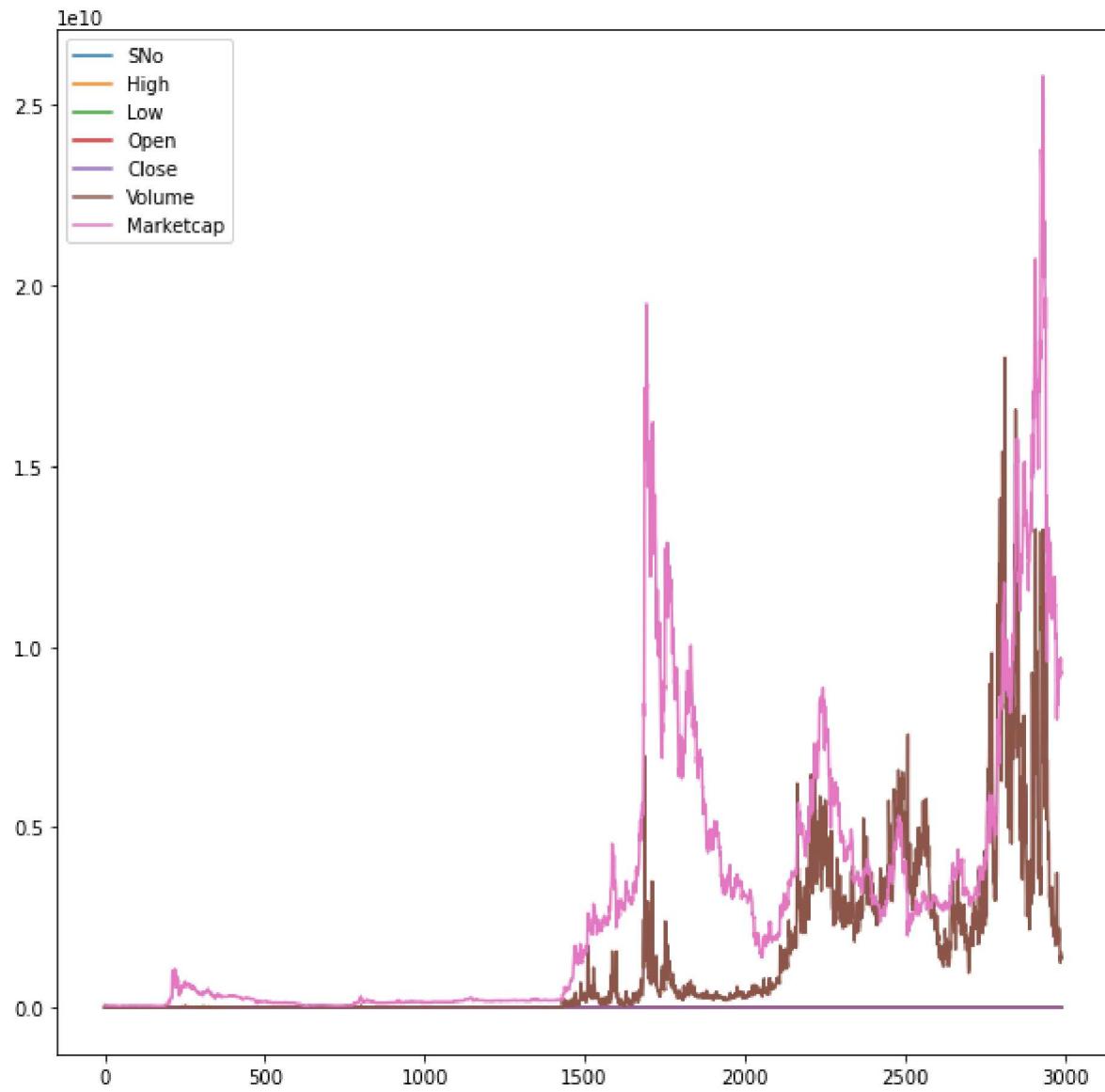
```
In [ ]: bitcoin.plot(figsize=(10,10))
```

```
Out[ ]: <AxesSubplot:
```



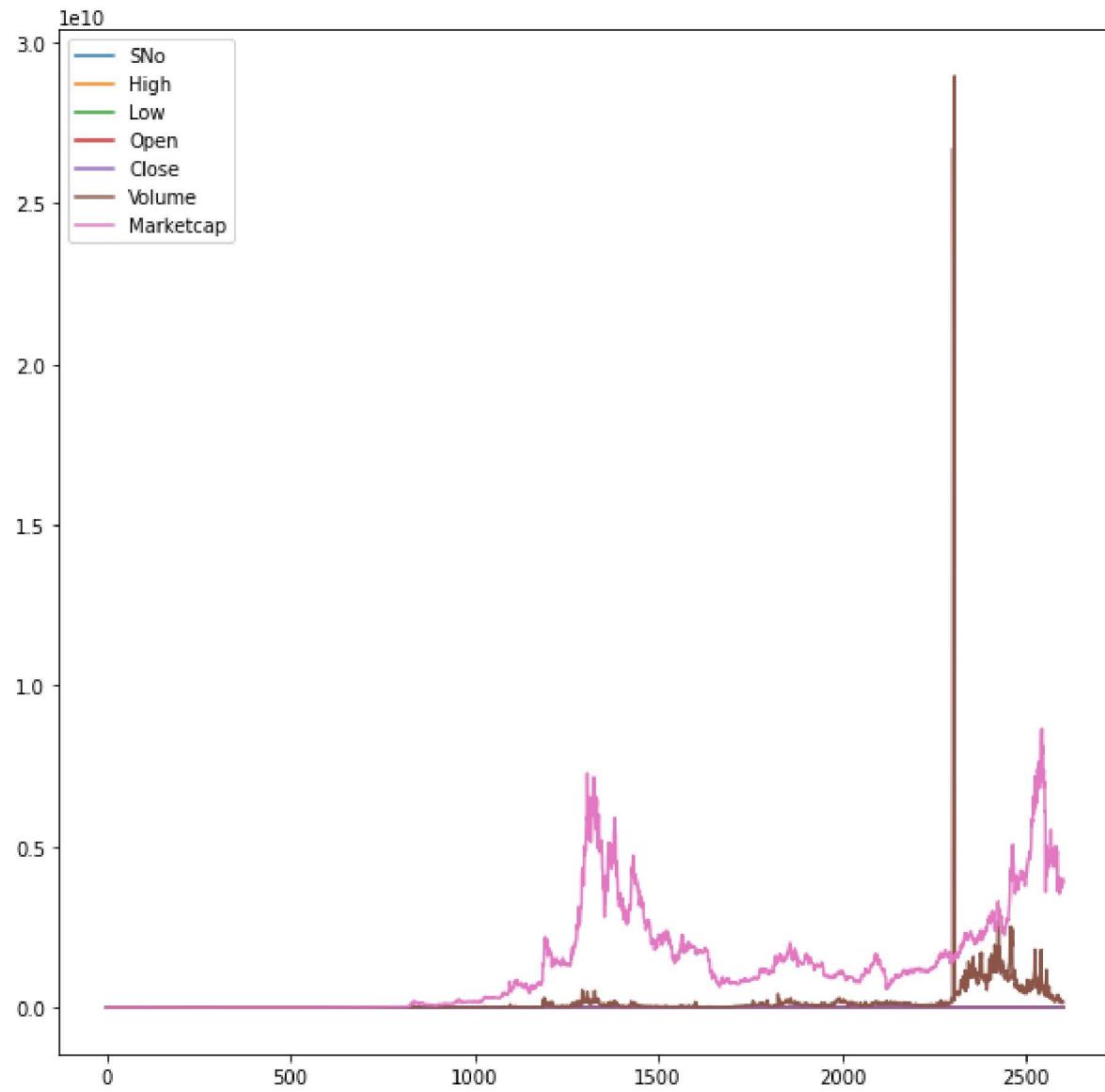
In [ ]: `Litecoin.plot(figsize=(10,10))`

Out[ ]: <AxesSubplot:>



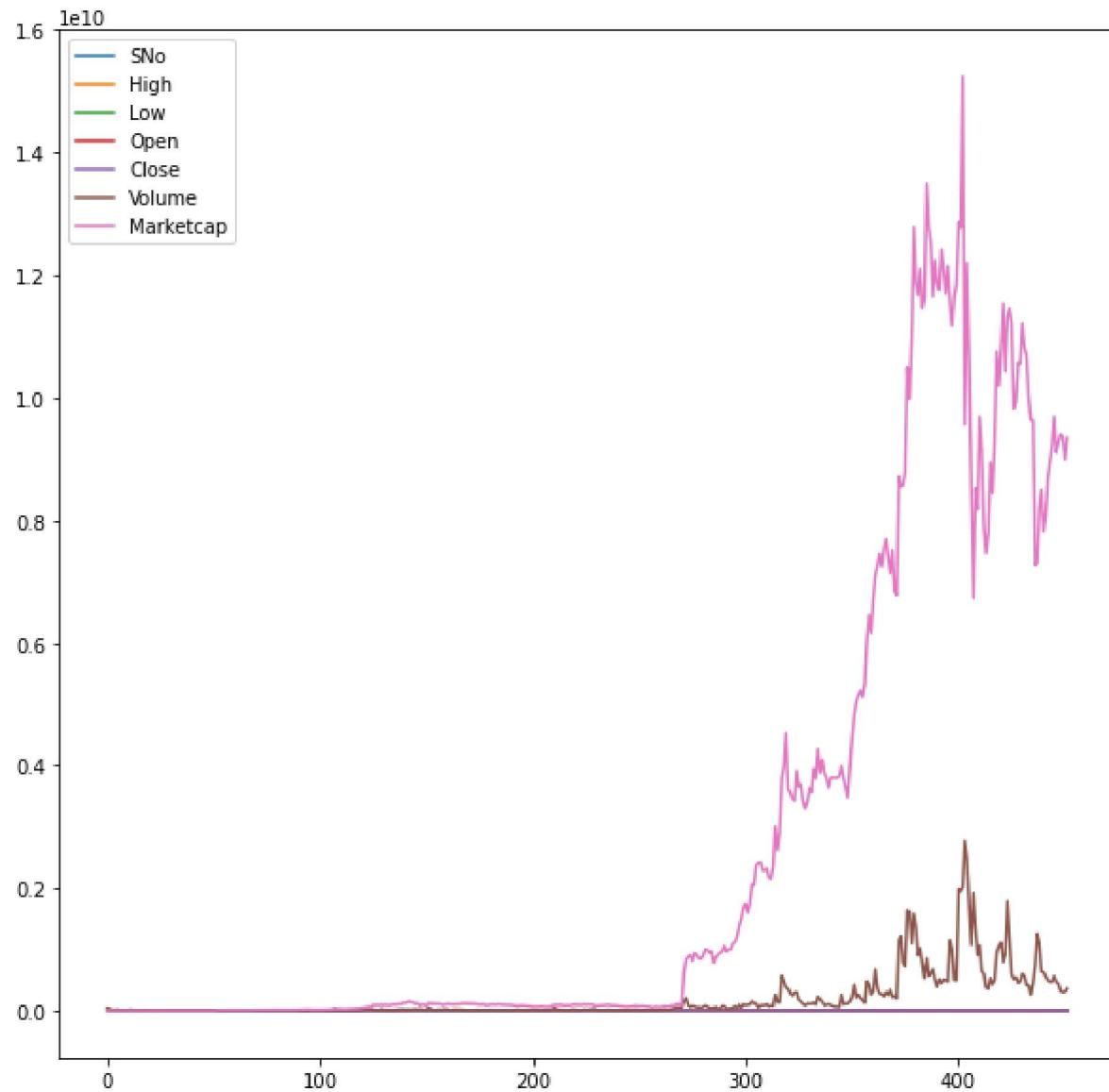
```
In [ ]: Monero.plot(figsize=(10,10))
```

```
Out[ ]: <AxesSubplot:>
```



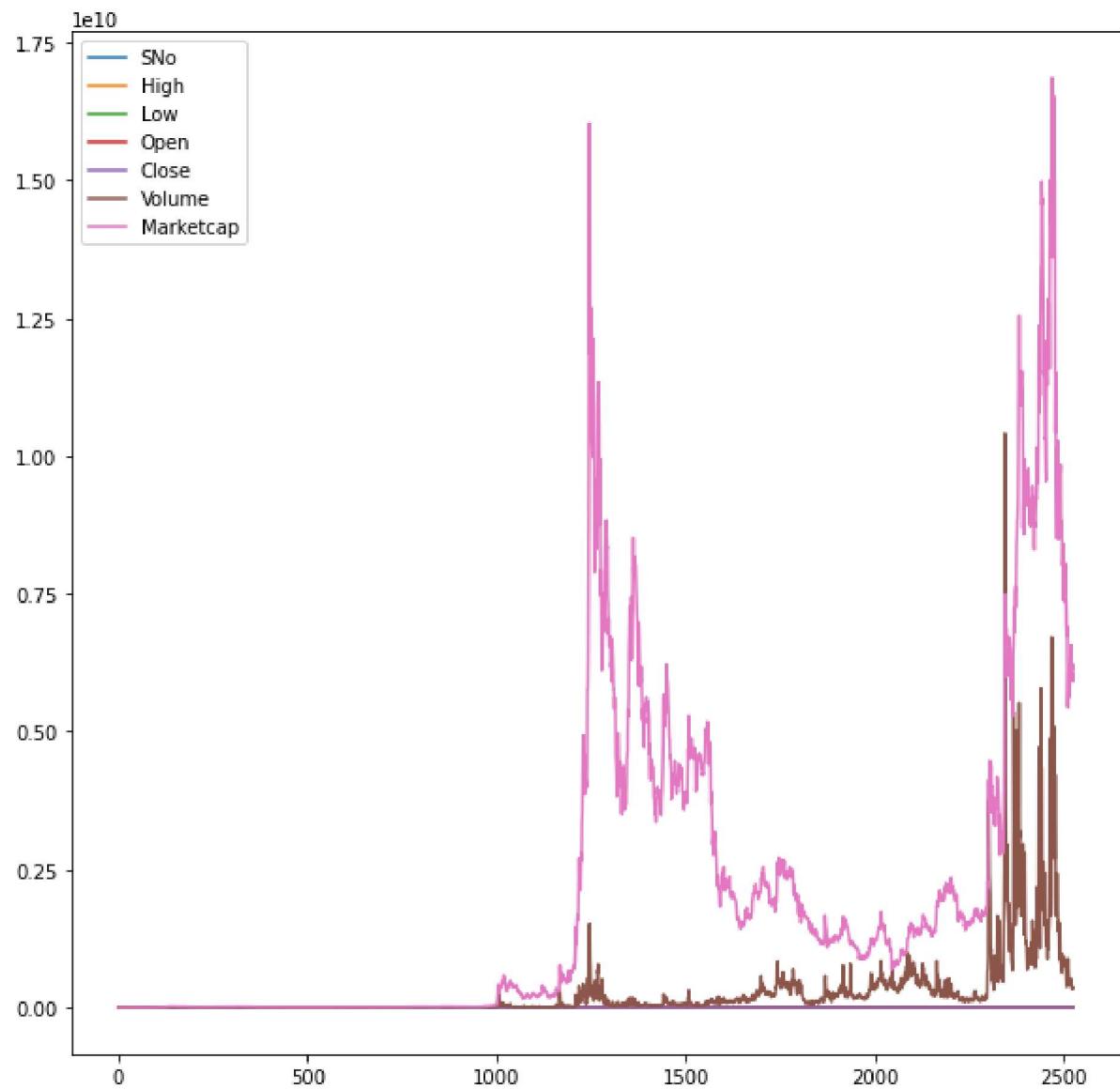
In [ ]: `Solana.plot(figsize=(10,10))`

Out[ ]: <AxesSubplot:>



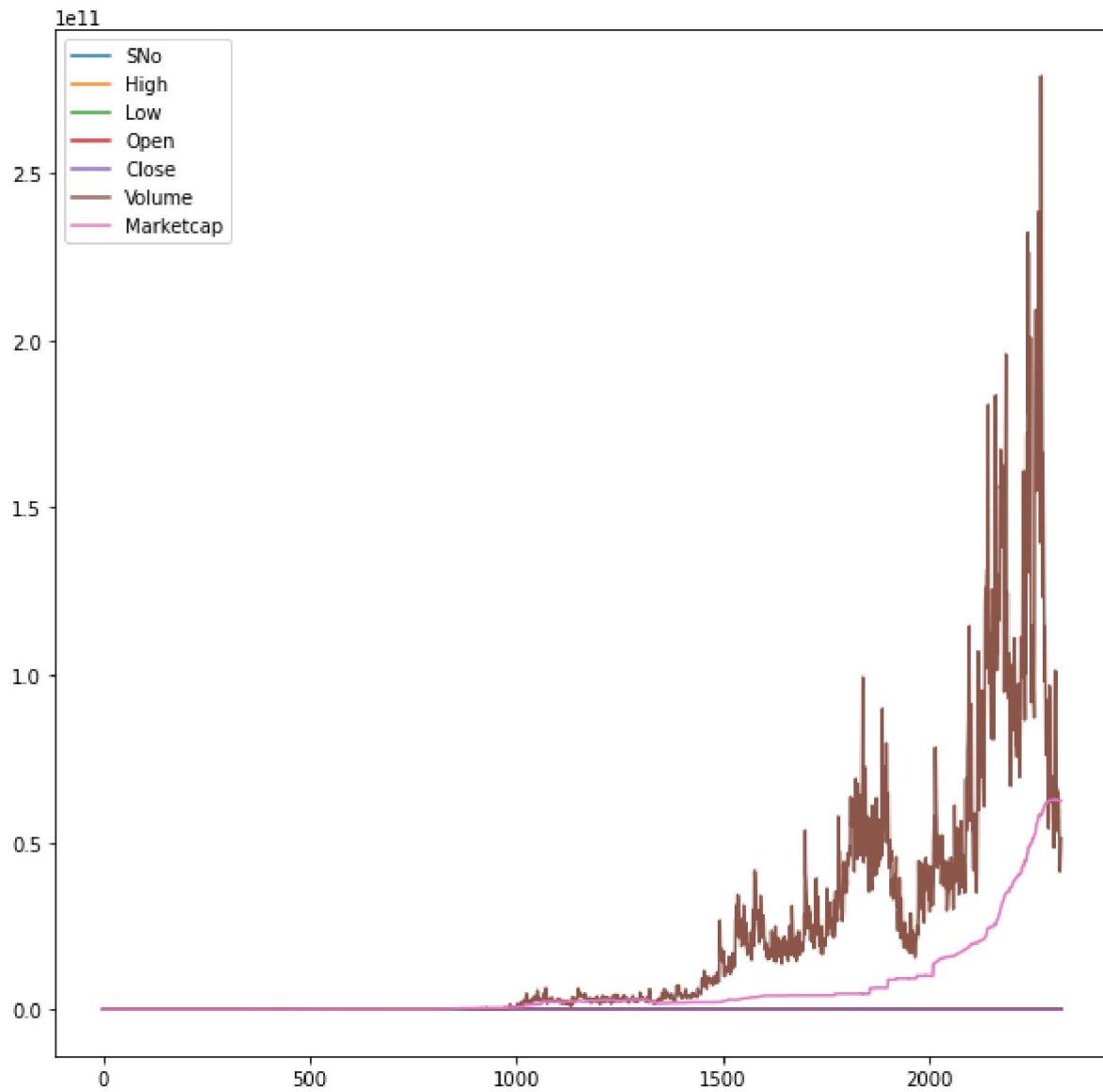
In [ ]: Stellar.plot(figsize=(10,10))

Out[ ]: <AxesSubplot:>



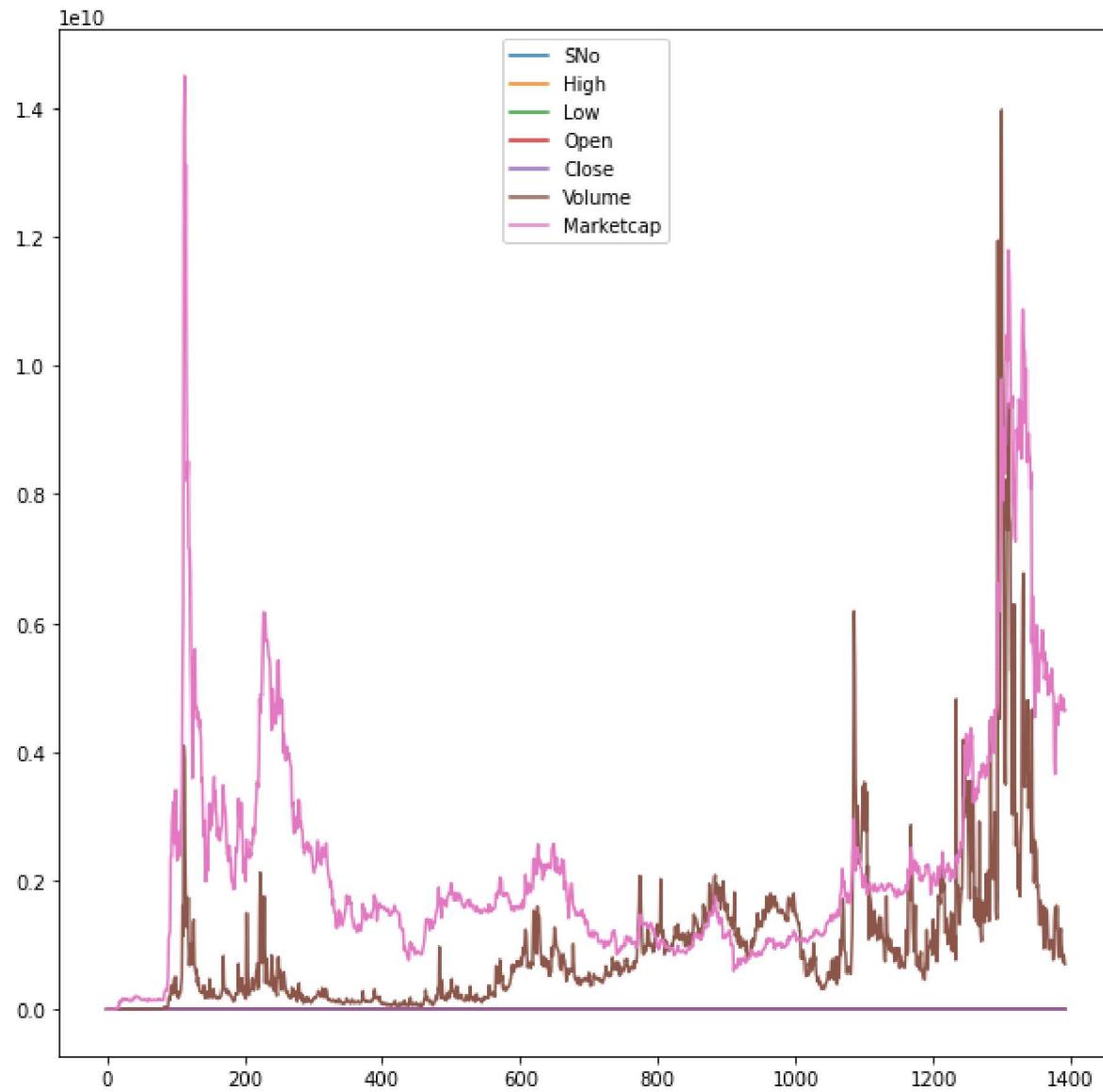
```
In [ ]: Tether.plot(figsize=(10,10))
```

```
Out[ ]: <AxesSubplot:>
```



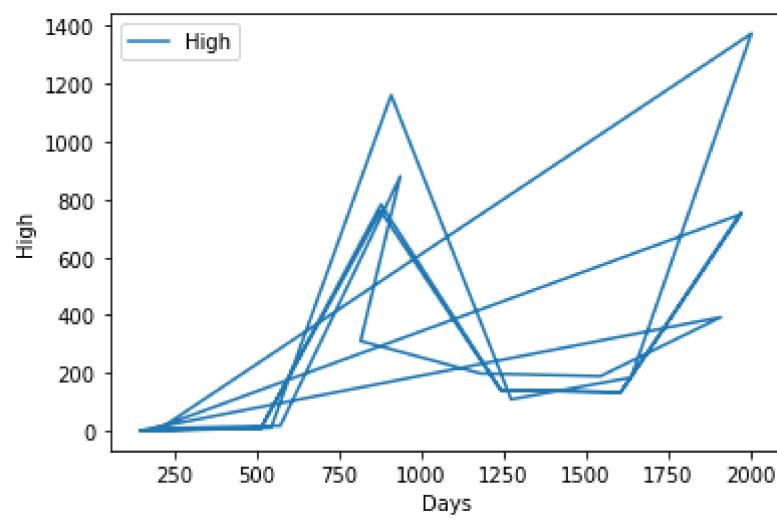
In [ ]: `Tron.plot(figsize=(10,10))`

Out[ ]: <AxesSubplot:>



```
In [ ]: new = pd.concat([ethereum.head(15), ethereum.tail(10)]).plot(y='High')
plt.xlabel('Days')
plt.ylabel('High')
```

Out[ ]: Text(0, 0.5, 'High')



```
In [ ]:
start_date = '2020-01-01'
end_date = '2020-01-31'
```

```
In [ ]:
bitcoin['Date'] = pd.to_datetime(bitcoin['Date'])
ethereum['Date'] = pd.to_datetime(ethereum['Date'])
Litecoin['Date'] = pd.to_datetime(Litecoin['Date'])
Monero['Date'] = pd.to_datetime(Monero['Date'])
Ripple['Date'] = pd.to_datetime(Ripple['Date'])
Solana['Date'] = pd.to_datetime(Solana['Date'])
Stellar['Date'] = pd.to_datetime(Stellar['Date'])
Tether['Date'] = pd.to_datetime(Tether['Date'])
Tron['Date'] = pd.to_datetime(Tron['Date'])
```

```
In [ ]:
bitcoin.set_index('Date', drop=True, inplace=True)
ethereum.set_index('Date', drop=True, inplace=True)
Litecoin.set_index('Date', drop=True, inplace=True)
Monero.set_index('Date', drop=True, inplace=True)
Ripple.set_index('Date', drop=True, inplace=True)
Solana.set_index('Date', drop=True, inplace=True)
Stellar.set_index('Date', drop=True, inplace=True)
Tether.set_index('Date', drop=True, inplace=True)
Tron.set_index('Date', drop=True, inplace=True)
```

```
In [ ]:
fig, ax = plt.subplots(nrows=3 , ncols=3 , figsize=(10,8))

bitcoin['Bit_moving'] = bitcoin['Volume'].rolling(window=5).mean()
a = bitcoin[start_date:end_date][['Volume', 'Bit_moving']]
ax[0][0].plot(a)

ethereum['Eth_moving'] = ethereum['Volume'].rolling(window=5).mean()
b = ethereum[start_date:end_date][['Volume', 'Eth_moving']]
ax[0][1].plot(b)

Litecoin['lite_moving'] = Litecoin['Volume'].rolling(window=5).mean()
c = Litecoin[start_date:end_date][['Volume', 'lite_moving']]
ax[0][2].plot(c)

Monero['Mon_moving'] = Monero['Volume'].rolling(window=5).mean()
d = Monero[start_date:end_date][['Volume', 'Mon_moving']]
ax[1][0].plot(d)

Ripple['Rpl_moving'] = Ripple['Volume'].rolling(window=5).mean()
e = Ripple[start_date:end_date][['Volume', 'Rpl_moving']]
ax[1][1].plot(e)

Solana['Sol'] = Solana['Volume'].rolling(window=5).mean()
f = Solana[start_date:end_date][['Volume', 'Sol']]
ax[1][2].plot(f)

Stellar['Stl'] = Stellar['Volume'].rolling(window=5).mean()
g = Stellar[start_date:end_date][['Volume', 'Stl']]
ax[2][0].plot(g)

Tether['tehr'] = Tether['Volume'].rolling(window=5).mean()
h = Tether[start_date:end_date][['Volume', 'tehr']]
```

```
ax[2][1].plot(h)

Tron['Tron'] = Tron['Volume'].rolling(window=5).mean()
i = Tron[start_date:end_date][['Volume', 'Tron']]
ax[2][2].plot(i)

for ax in fig.axes:
    plt.sca(ax)
    plt.xticks(rotation=90)

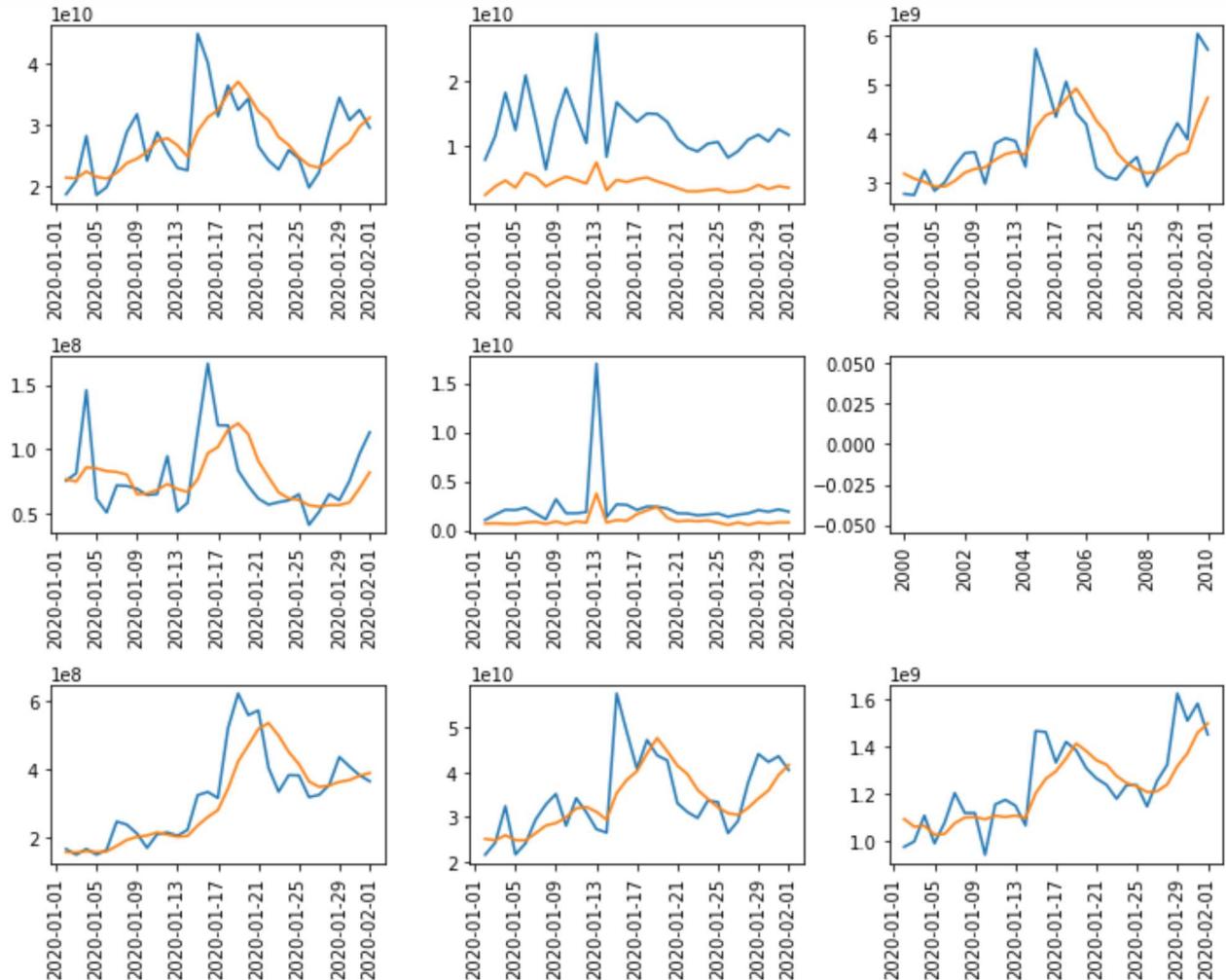
fig.tight_layout()
```

C:\Users\Goku\AppData\Local\Temp\ipykernel\_18372/109765575.py:8: FutureWarning:

Value based partial slicing on non-monotonic DatetimeIndexes with non-existing keys is deprecated and will raise a KeyError in a future Version.

C:\Users\Goku\AppData\Local\Temp\ipykernel\_18372/109765575.py:20: FutureWarning:

Value based partial slicing on non-monotonic DatetimeIndexes with non-existing keys is deprecated and will raise a KeyError in a future Version.



In [ ]:

```
start_date = '2020-04-01'
end_date = '2021-04-01'
```

```
In [ ]: fig, ax = plt.subplots(nrows=3 , ncols=3 , figsize=(10,8))

a = bitcoin[start_date:end_date][ 'Marketcap' ]
ax[0][0].plot(a)

b = ethereum[start_date:end_date][ 'Marketcap' ]
ax[0][1].plot(b)

c = Litecoin[start_date:end_date][ 'Marketcap' ]
ax[0][2].plot(c)

d = Monero[start_date:end_date][ 'Marketcap' ]
ax[1][0].plot(d)

e = Ripple[start_date:end_date][ 'Marketcap' ]
ax[1][1].plot(e)

f = Solana[start_date:end_date][ 'Marketcap' ]
ax[1][2].plot(f)

g = Stellar[start_date:end_date][ 'Marketcap' ]
ax[2][0].plot(g)

h = Tether[start_date:end_date][ 'Marketcap' ]
ax[2][1].plot(h)

i = Tron[start_date:end_date][ 'Marketcap' ]
ax[2][2].plot(i)

for ax in fig.axes:
    plt.sca(ax)
    plt.xticks(rotation=90)

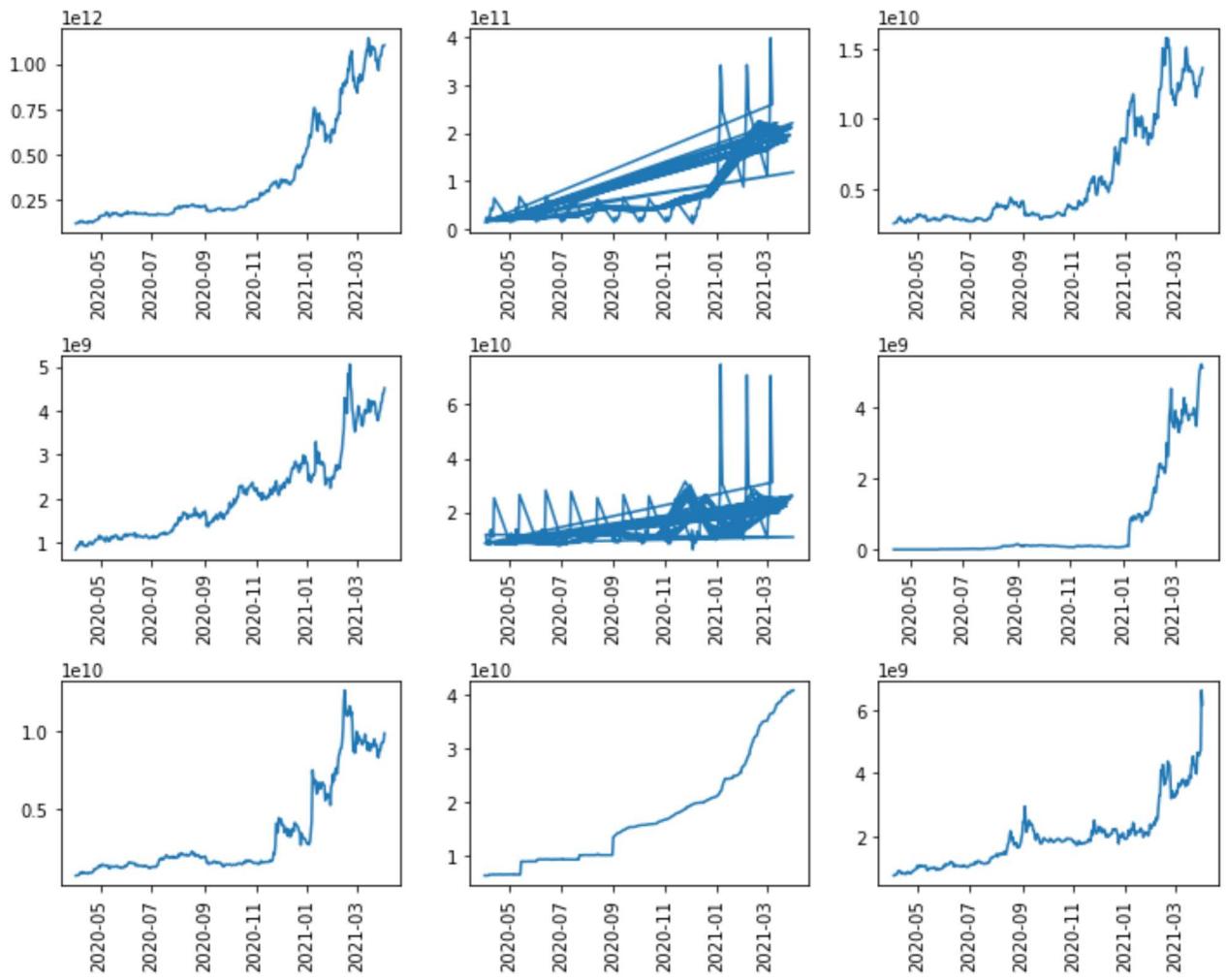
fig.tight_layout()
```

C:\Users\Goku\AppData\Local\Temp\ipykernel\_18372\3498591309.py:6: FutureWarning:

Value based partial slicing on non-monotonic DatetimeIndexes with non-existing keys is deprecate and will raise a KeyError in a future Version.

C:\Users\Goku\AppData\Local\Temp\ipykernel\_18372\3498591309.py:15: FutureWarning:

Value based partial slicing on non-monotonic DatetimeIndexes with non-existing keys is deprecate and will raise a KeyError in a future Version.



```
In [ ]:
fig, ax = plt.subplots(nrows=9, ncols=2, figsize=(10,30))

a = bitcoin['High']
ax[0][0].plot(a)
a = bitcoin['Low']
ax[0][1].plot(a)

b = ethereum['High']
ax[1][0].plot(b)
b = ethereum['Low']
ax[1][1].plot(b)

c = Litecoin['High']
ax[2][0].plot(c)
c = Litecoin['Low']
ax[2][1].plot(c)

d = Monero['High']
ax[3][0].plot(d)
d = Monero['Low']
ax[3][1].plot(d)

e = Ripple['High']
ax[4][0].plot(e)
e = Ripple['Low']
ax[4][1].plot(e)
```

```

f = Solana['High']
ax[5][0].plot(f)
f = Solana['Low']
ax[5][1].plot(f)

g = Stellar['High']
ax[6][0].plot(g)
g = Stellar['Low']
ax[6][1].plot(g)

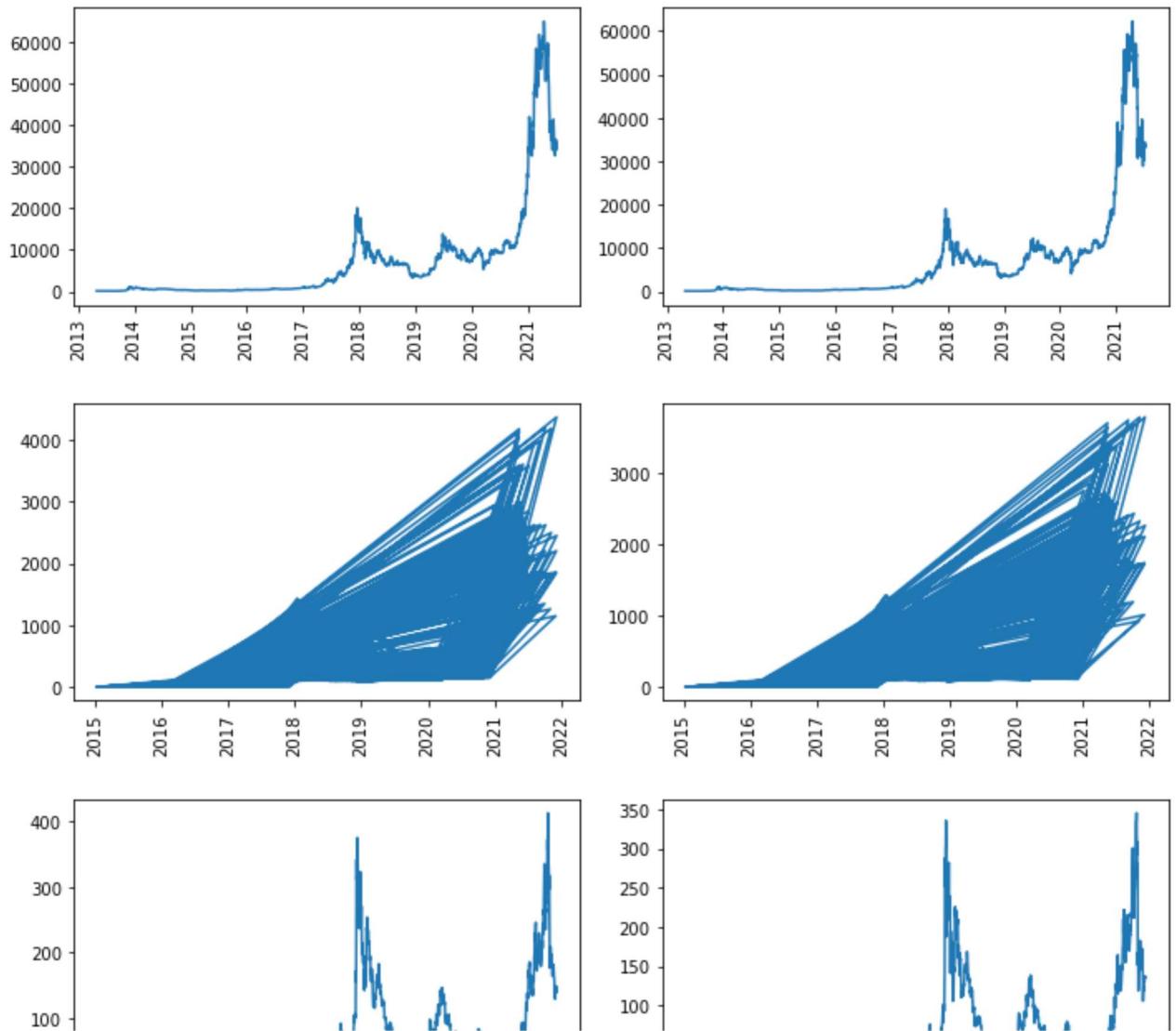
h = Tether['High']
ax[7][0].plot(h)
h = Tether['Low']
ax[7][1].plot(h)

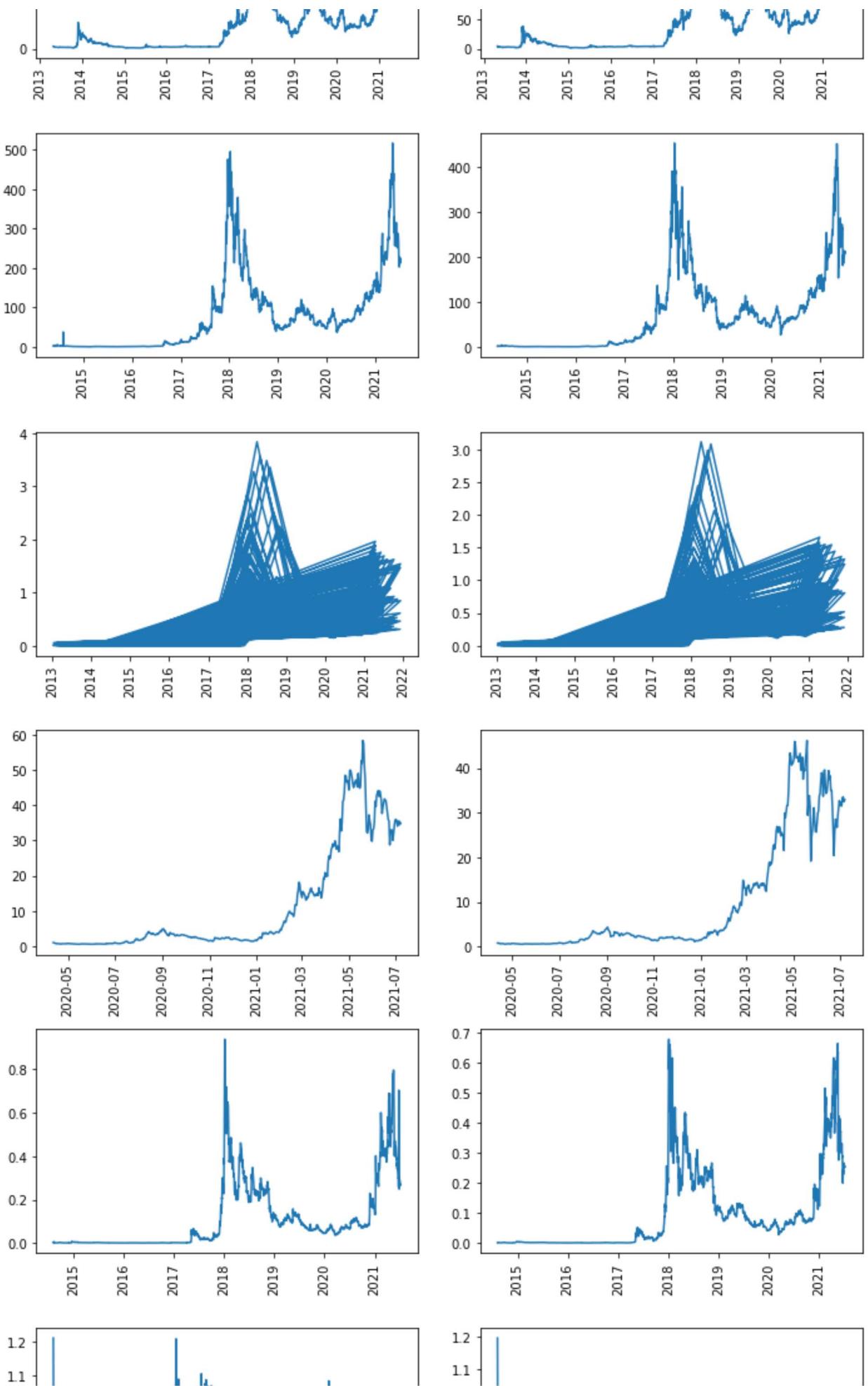
i = Tron['High']
ax[8][0].plot(i)
i = Tron['Low']
ax[8][1].plot(i)

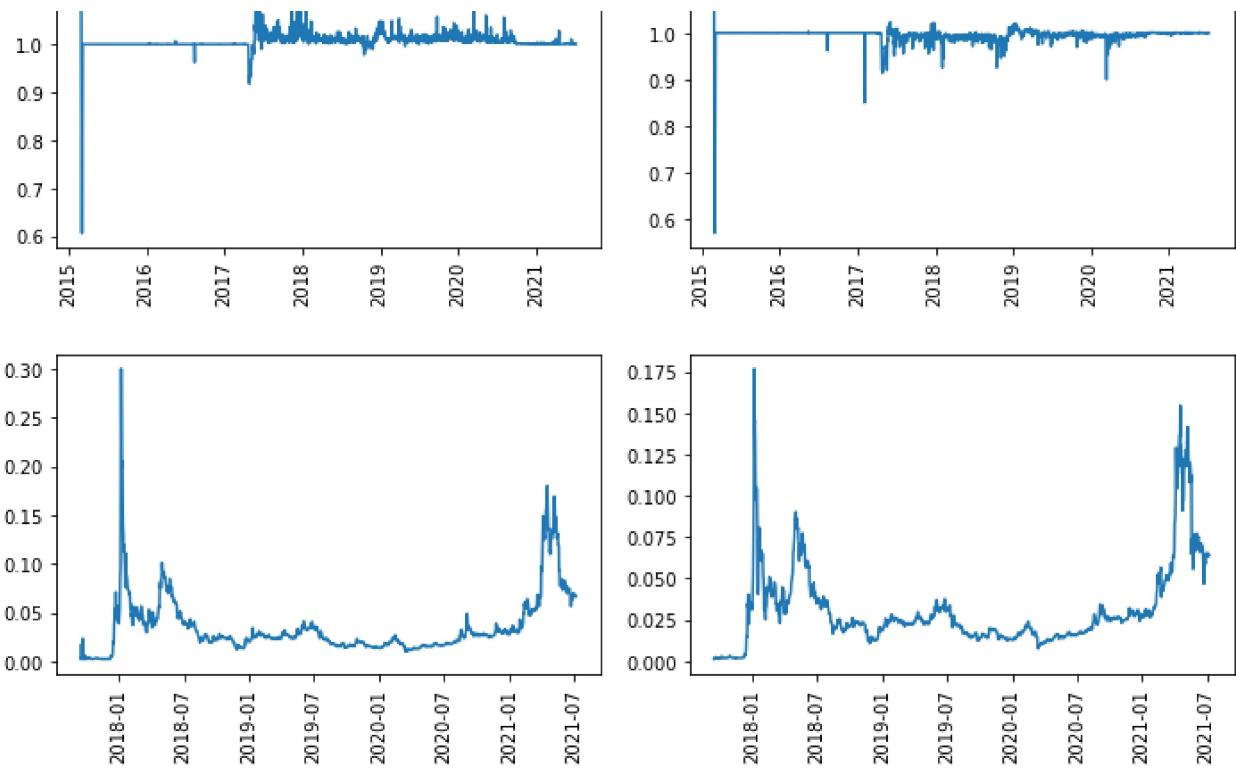
for ax in fig.axes:
    plt.sca(ax)
    plt.xticks(rotation=90)

fig.tight_layout()

```







Plotting Open vs Close graphs

```
In [ ]:
fig, ax = plt.subplots(nrows=3 , ncols=3 , figsize=(10,8))
plt.title('Initial sale of Tokens')
a = bitcoin[['Open', 'Close']].iloc[0]
ax[0][0].plot(a)

b = ethereum[['Open', 'Close']].iloc[0]
ax[0][1].plot(b)

c = Litecoin[['Open', 'Close']].iloc[0]
ax[0][2].plot(c)

d = Monero[['Open', 'Close']].iloc[0]
ax[1][0].plot(d)

e = Ripple[['Open', 'Close']].iloc[0]
ax[1][1].plot(e)

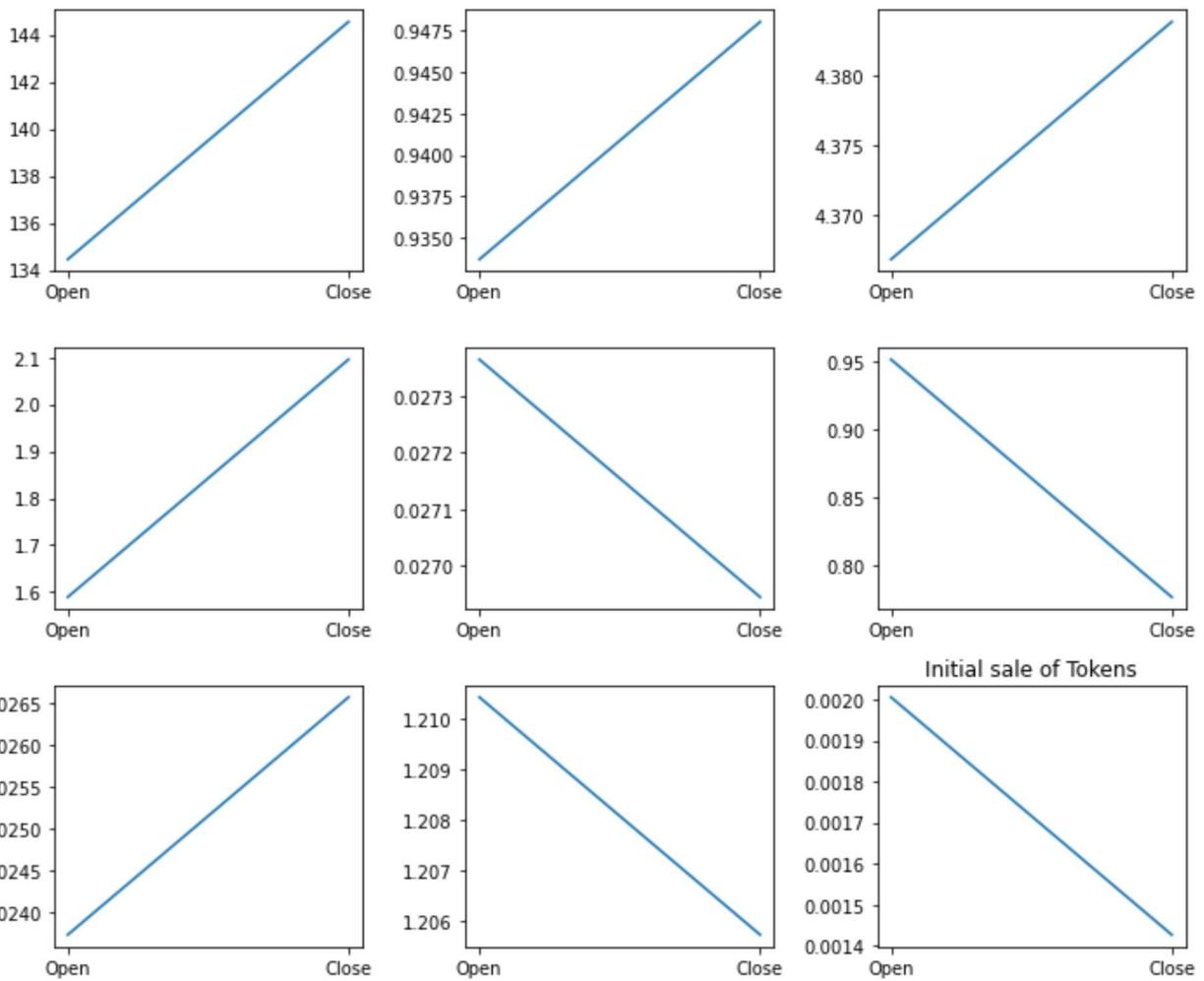
f = Solana[['Open', 'Close']].iloc[0]
ax[1][2].plot(f)

g = Stellar[['Open', 'Close']].iloc[0]
ax[2][0].plot(g)

h = Tether[['Open', 'Close']].iloc[0]
ax[2][1].plot(h)

i = Tron[['Open', 'Close']].iloc[0]
ax[2][2].plot(i)

fig.tight_layout()
```



Performing Candlestick visualization for better understanding

```
In [ ]: bitcoin = pd.read_csv('D:\python\data\coin_Bitcoin.csv')
ethereum = pd.read_csv('D:\python\data\coin_Ethereum.csv')
Litecoin = pd.read_csv('D:\python\data\coin_Litecoin.csv')
Monero = pd.read_csv('D:\python\data\coin_Monero.csv')
Ripple = pd.read_csv('D:\python\data\coin_Ripple.csv')
Solana = pd.read_csv('D:\python\data\coin_Solana.csv')
Stellar = pd.read_csv('D:\python\data\coin_Stellar.csv')
Tether = pd.read_csv('D:\python\data\coin_Tether.csv')
Tron = pd.read_csv('D:\python\data\coin_Tron.csv')
```

```
In [ ]: from plotly.offline import plot
```

```
In [ ]: fig = go.Figure(data=[go.Candlestick(x=bitcoin['Date'],
                                             open= bitcoin['Open'],
                                             high= bitcoin['High'],
                                             low=bitcoin['Low'],
                                             close = bitcoin['Close'])])
fig.update_layout(title = 'Bitcoin', yaxis_title = 'Price', xaxis_title='Duration',auto
fig.show()
```

```
In [ ]:
```

```
fig1 = go.Figure(data=[go.Candlestick(x=ethereum['Date'],
                                       open= ethereum['Open'],
                                       high= ethereum['High'],
                                       low=ethereum['Low'],
                                       close = ethereum['Low'])])
fig1.update_layout(title = 'ethereum', yaxis_title = 'Price', xaxis_title='Duration',auto
fig1.show()
```

In [ ]:

```
fig2 = go.Figure(data=[go.Candlestick(x=Litecoin['Date'],
                                       open= Litecoin['Open'],
                                       high= Litecoin['High'],
                                       low=Litecoin['Low'],
                                       close = Litecoin['Low'])])
fig2.update_layout(title = 'Litecoin', yaxis_title = 'Price', xaxis_title='Duration',auto
fig2.show()
```

In [ ]:

```
fig3 = go.Figure(data=[go.Candlestick(x=Monero['Date'],
                                       open= Monero['Open'],
                                       high= Monero['High'],
                                       low=Monero['Low'],
                                       close = Monero['Low'])])
fig3.update_layout(title = 'Monero', yaxis_title = 'Price', xaxis_title='Duration',auto
fig3.show()
```

In [ ]:

```
fig4 = go.Figure(data=[go.Candlestick(x=Ripple['Date'],
                                       open= Ripple['Open'],
                                       high= Ripple['High'],
                                       low=Ripple['Low'],
                                       close = Ripple['Low'])])
fig4.update_layout(title = 'Ripple', yaxis_title = 'Price', xaxis_title='Duration',auto
fig4.show()
```

In [ ]:

```
fig5 = go.Figure(data=[go.Candlestick(x=Solana['Date'],
                                       open= Solana['Open'],
                                       high= Solana['High'],
                                       low=Solana['Low'],
                                       close = Solana['Low'])])
fig5.update_layout(title = 'Solana', yaxis_title = 'Price', xaxis_title='Duration',auto
fig5.show()
```

In [ ]:

```
fig6 = go.Figure(data=[go.Candlestick(x=Stellar['Date'],
                                       open= Stellar['Open'],
                                       high= Stellar['High'],
                                       low=Stellar['Low'],
                                       close = Stellar['Low'])])
fig6.update_layout(title = 'Stellar', yaxis_title = 'Price', xaxis_title='Duration',auto
fig6.show()
```

```
In [ ]: fig7 = go.Figure(data=[go.Candlestick(x=Tether['Date'],
                                         open= Tether['Open'],
                                         high= Tether['High'],
                                         low=Tether['Low'],
                                         close = Tether['Low'])])
fig7.update_layout(title = 'Tether', yaxis_title = 'Price', xaxis_title='Duration',autosize=True)
fig7.show()
```

```
In [ ]: fig8 = go.Figure(data=[go.Candlestick(x=Tron['Date'],
                                         open= Tron['Open'],
                                         high= Tron['High'],
                                         low=Tron['Low'],
                                         close = Tron['Low'])])
fig8.update_layout(title = 'Tron', yaxis_title = 'Price', xaxis_title='Duration',autosize=True)
fig8.show()
```

Using scatterplot to plot by **Year**

```
In [ ]: bitcoin['Date'] = pd.to_datetime(bitcoin['Date'])
bitcoin['Year'] = pd.DatetimeIndex(bitcoin['Date']).year
ethereum['Date'] = pd.to_datetime(ethereum['Date'])
ethereum['Year'] = pd.DatetimeIndex(ethereum['Date']).year
Litecoin['Date'] = pd.to_datetime(Litecoin['Date'])
Litecoin['Year'] = pd.DatetimeIndex(Litecoin['Date']).year
Monero['Date'] = pd.to_datetime(Monero['Date'])
Monero['Year'] = pd.DatetimeIndex(Monero['Date']).year
Ripple['Date'] = pd.to_datetime(Ripple['Date'])
Ripple['Year'] = pd.DatetimeIndex(Ripple['Date']).year
Solana['Date'] = pd.to_datetime(Solana['Date'])
Solana['Year'] = pd.DatetimeIndex(Solana['Date']).year
Stellar['Date'] = pd.to_datetime(Stellar['Date'])
Stellar['Year'] = pd.DatetimeIndex(Stellar['Date']).year
Tether['Date'] = pd.to_datetime(Tether['Date'])
Tether['Year'] = pd.DatetimeIndex(Tether['Date']).year
Tron['Date'] = pd.to_datetime(Tron['Date'])
Tron['Year'] = pd.DatetimeIndex(Tron['Date']).year
```

```
In [ ]: start_date = 2015
end_date = 2021
```

```
In [ ]: BTH = (bitcoin['Year'] > start_date) & (bitcoin['Year'] <= end_date)
BTH = bitcoin.loc[BTH]

ETH = (ethereum['Year'] > start_date) & (ethereum['Year'] <= end_date)
ETH = ethereum.loc[ETH]

LTC = (Litecoin['Year'] > start_date) & (Litecoin['Year'] <= end_date)
LTC = Litecoin.loc[LTC]

XMR = (Monero['Year'] > start_date) & (Monero['Year'] <= end_date)
XMR = Monero.loc[XMR]
```

```

XRP = (Ripple['Year'] > start_date) & (Ripple['Year'] <= end_date)
XRP = Ripple.loc[XRP]

SOL = (Solana['Year'] > start_date) & (Solana['Year'] <= end_date)
SOL = Solana.loc[SOL]

XLM = (Stellar['Year'] > start_date) & (Stellar['Year'] <= end_date)
XLM = Stellar.loc[XLM]

USDT = (Tether['Year'] > start_date) & (Tether['Year'] <= end_date)
USDT = Tether.loc[USDT]

TRX = (Tron['Year'] > start_date) & (Tron['Year'] <= end_date)
TRX = Tron.loc[TRX]

```

In [ ]:

```

concat = pd.concat([BTH.assign(dataset='BTH'), ETH.assign(dataset='ETH'), LTC.assign(dataset='LTC'),
                    SOL.assign(dataset='SOL'), XLM.assign(dataset='XLM'), USDT.assign(dataset='USDT'),
                    TRX.assign(dataset='TRX')])
plt.figure(figsize=(20,10))
sns.scatterplot(data=concat, x='Year', y='Close', hue='dataset', palette='viridis')

```

Out[ ]:

