

## Netflix Stock Analysis

```
In [37]: 1 import numpy as np
          2 import pandas as pd
          3 import matplotlib.pyplot as plt
          4 import seaborn as sns
          5
          6 # for date time
          7 from datetime import datetime
```

```
In [38]: 1 df=pd.read_csv("Netflix.csv")
```

```
In [39]: 1 df.head()
```

```
Out[39]:
```

	Date	Open	High	Low	Close	Adj Close	Volume
0	2002-05-23	1.156429	1.242857	1.145714	1.196429	1.196429	104790000
1	2002-05-24	1.214286	1.225000	1.197143	1.210000	1.210000	11104800
2	2002-05-28	1.213571	1.232143	1.157143	1.157143	1.157143	6609400
3	2002-05-29	1.164286	1.164286	1.085714	1.103571	1.103571	6757800
4	2002-05-30	1.107857	1.107857	1.071429	1.071429	1.071429	10154200

In [40]:

```
1 df.tail()
```

Out[40]:

	Date	Open	High	Low	Close	Adj Close	Volume
4869	2021-09-24	592.500000	592.979980	583.640015	592.390015	592.390015	2124800
4870	2021-09-27	587.950012	593.580017	576.929993	592.640015	592.640015	2504700
4871	2021-09-28	589.000000	599.539978	580.159973	583.849976	583.849976	4431100
4872	2021-09-29	589.010010	609.880005	588.010010	599.059998	599.059998	6221000
4873	2021-09-30	608.049988	619.000000	608.049988	610.340027	610.340027	6612600

In [41]:

```
1 sns.set(rc={'figure.figsize':(10,5)})
```

In [42]:

```
1 df['Date']=pd.to_datetime(df['Date'])
2 df=df.set_index('Date')
3 df.head()
```

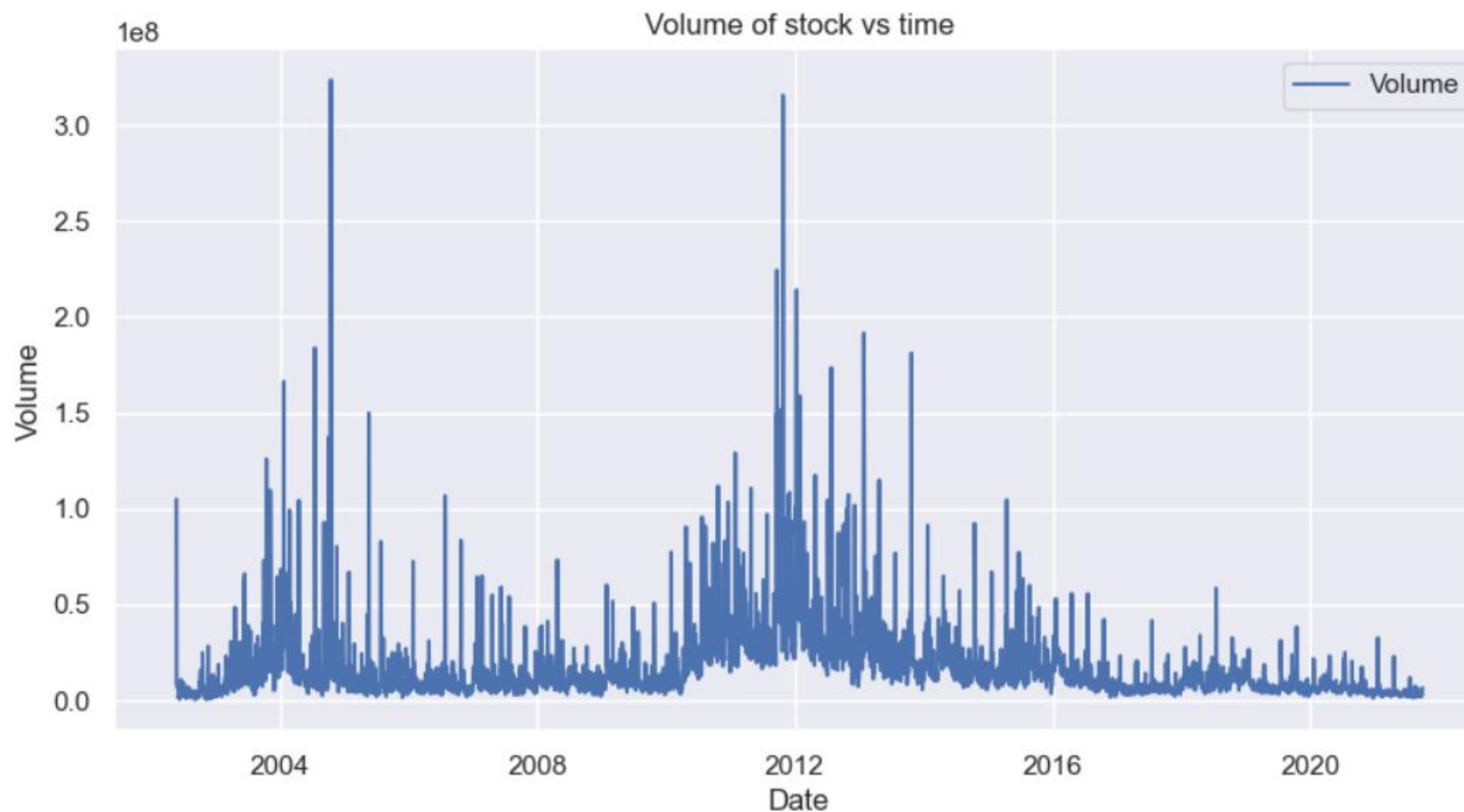
Out[42]:

	Open	High	Low	Close	Adj Close	Volume
Date						
2002-05-23	1.156429	1.242857	1.145714	1.196429	1.196429	104790000
2002-05-24	1.214286	1.225000	1.197143	1.210000	1.210000	11104800
2002-05-28	1.213571	1.232143	1.157143	1.157143	1.157143	6609400
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2002-05-30	1.107857	1.107857	1.071429	1.071429	1.071429	10154200

## VOLUME OF STOCK TRADED

```
In [43]: 1 sns.lineplot(x=df.index, y=df['Volume'], label='Volume')  
        2 plt.title('Volume of stock vs time')
```

```
Out[43]: Text(0.5, 1.0, 'Volume of stock vs time')
```

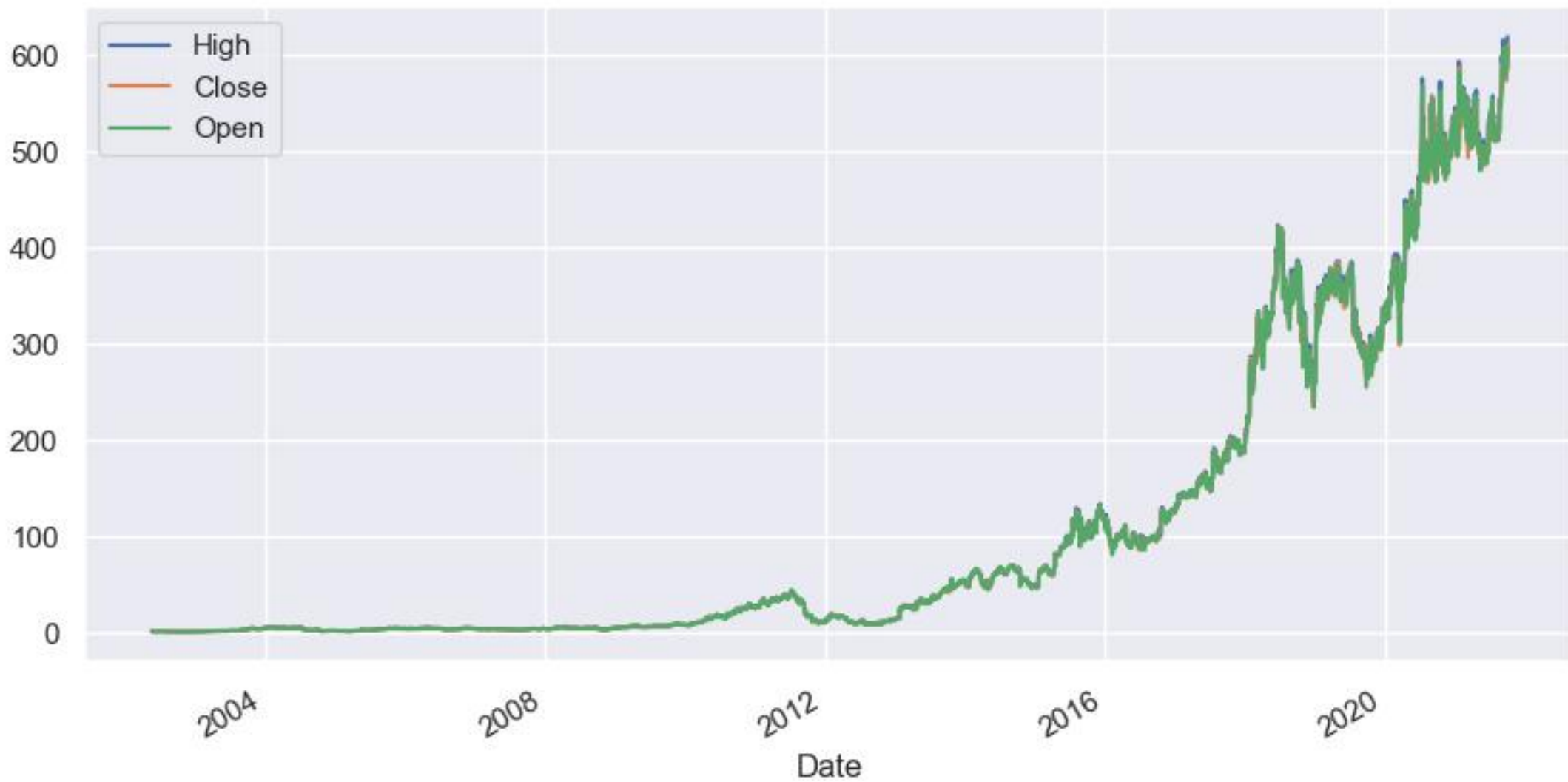


## NETFLIX STOCK PRICE --- HIGH,CLOSE,OPEN

```
In [75]: 1 df.plot(y=['High','Close','Open'], title = 'Netflix Stock Price')
```

```
Out[75]: <Axes: title={'center': 'Netflix Stock Price'}, xlabel='Date'>
```

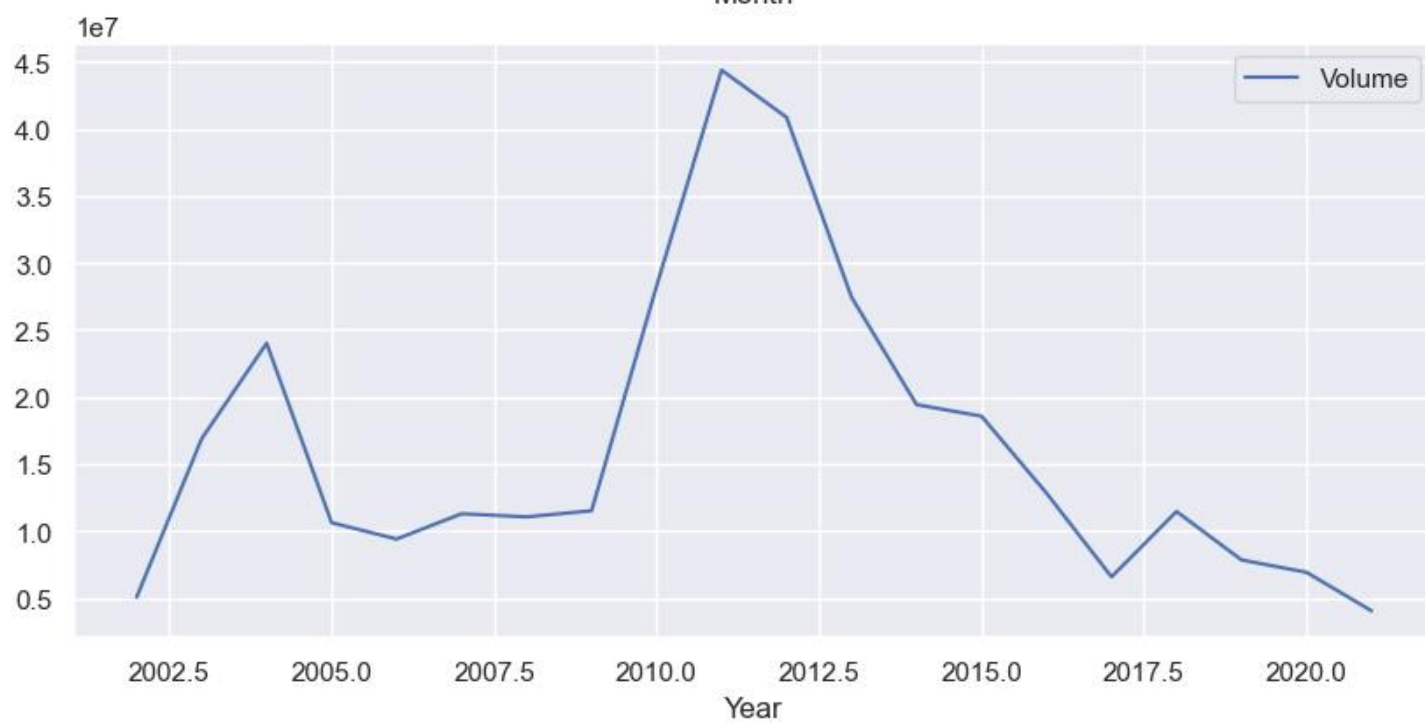
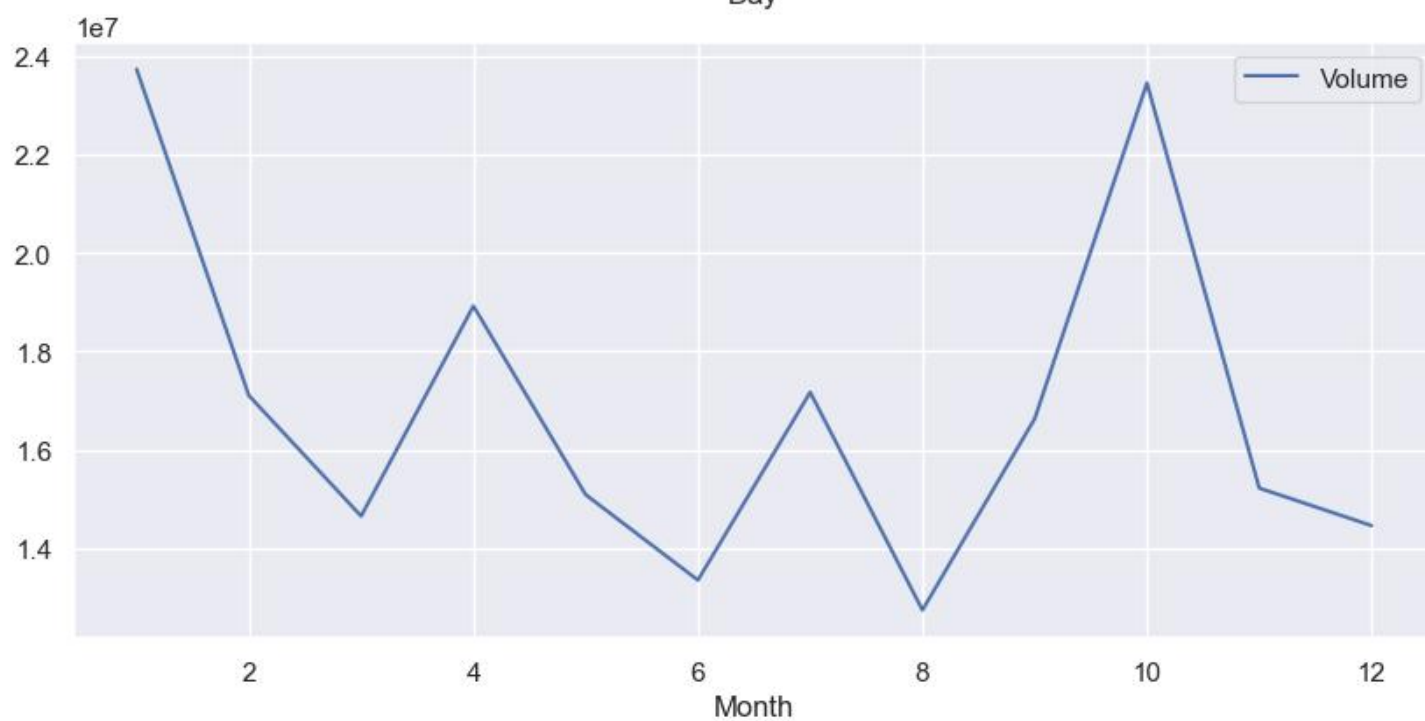
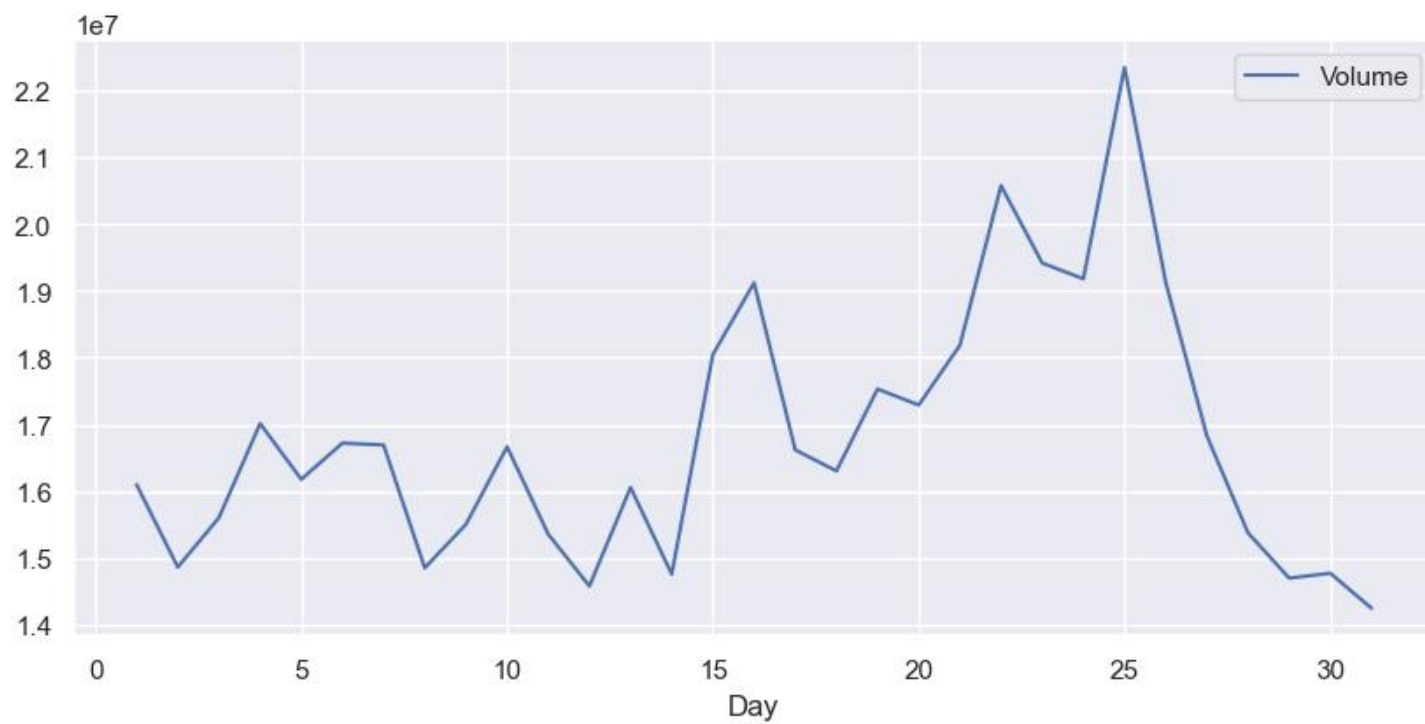
Netflix Stock Price



## NETFLIX STOCK PRICE --- DAY,MONTH,YEAR WISE

```
In [58]: 1 fig,(ax1,ax2,ax3)=plt.subplots(3,figsize=(10,15))
          2 df.groupby(df.index.day).mean().plot(y='Volume',ax=ax1, xlabel='Day') |
          3 df.groupby(df.index.month).mean().plot(y='Volume',ax=ax2, xlabel= 'Month')
          4 df.groupby(df.index.year).mean().plot(y='Volume',ax=ax3, xlabel= 'Year')
```

```
Out[58]: <Axes: xlabel='Year'>
```





## DATES WITH HIGHEST STOCK PRICE

```
In [60]: 1 a=df.sort_values(by='High',ascending=False).head(5)
          2 a['High']
```

```
Out[60]: Date
2021-09-30    619.000000
2021-09-08    615.599976
2021-09-07    613.849976
2021-09-29    609.880005
2021-09-10    609.450012
Name: High, dtype: float64
```

## DATES WITH LOWEST STOCK PRICE

```
In [61]: 1 a=df.sort_values(by='Low', ascending=True).head(5)
          2 a['Low']
```

```
Out[61]: Date
2002-10-10    0.346429
2002-10-09    0.347143
2002-10-07    0.382143
2002-10-08    0.390714
2002-10-16    0.442857
Name: Low, dtype: float64
```



```
In [73]: 1 fig,axes= plt.subplots(nrows=1,ncols=2, sharex=True, figsize=(12,5))
2 fig.suptitle('High & Low Values Stock per period of time', fontsize=18)
3 sns.lineplot(ax=axes[0],y=df['High'],x=df.index,color='Green')
4 sns.lineplot(ax=axes[1],y=df['Low'],x=df.index,color='Red')
```

```
Out[73]: <Axes: xlabel='Date', ylabel='Low'>
```

## High & Low Values Stock per period of time

