NETFLIX STOCK ANALYSIS PROJECT

In [1]:
```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
from datetime import datetime
```

In [2]:
```
df=pd.read_csv(r"C:\Users\ADMIN\Desktop\jupytercommand\Netflix.csv")
```

In [3]:
```
df
```

Out[3]:

	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
...	...	...	...	...	...	...	...
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

4874 rows × 7 columns

In [4]:
```
df.head()
```

Out[4]:

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

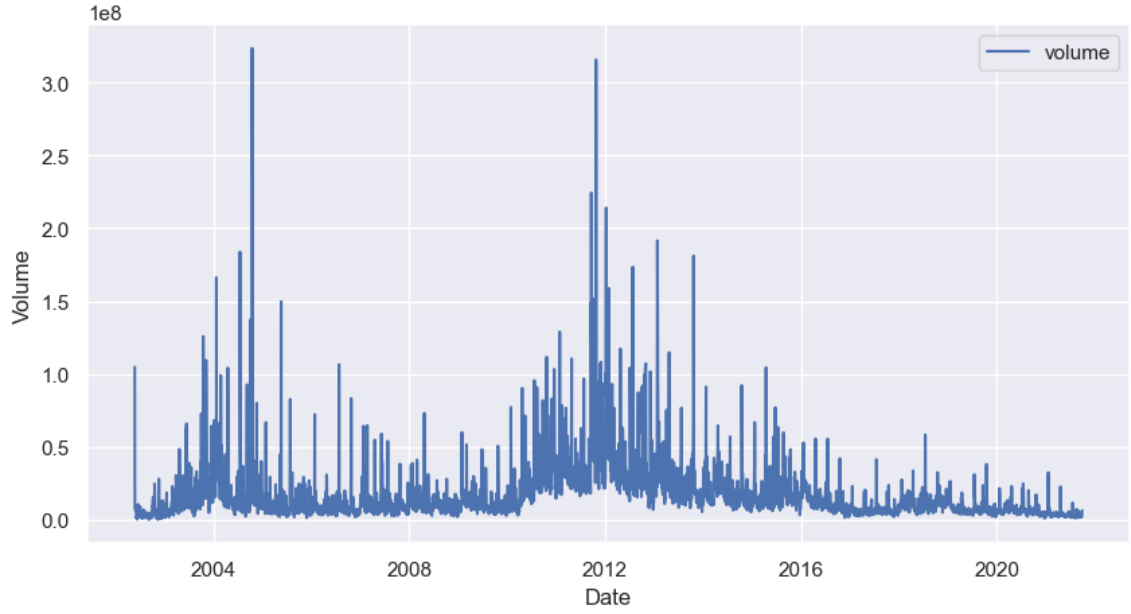
In [6]:
```
df['Date']=pd.to_datetime(df['Date'])
df=df.set_index('Date')
df.head()
```

Out[6]:

Date	Open	High	Low	Close	Adj Close	Volume
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
2002-05-29	1.164286	1.164286	1.085714	1.103571	1.103571	6757800
2002-05-30	1.107857	1.107857	1.071429	1.071429	1.071429	10154200

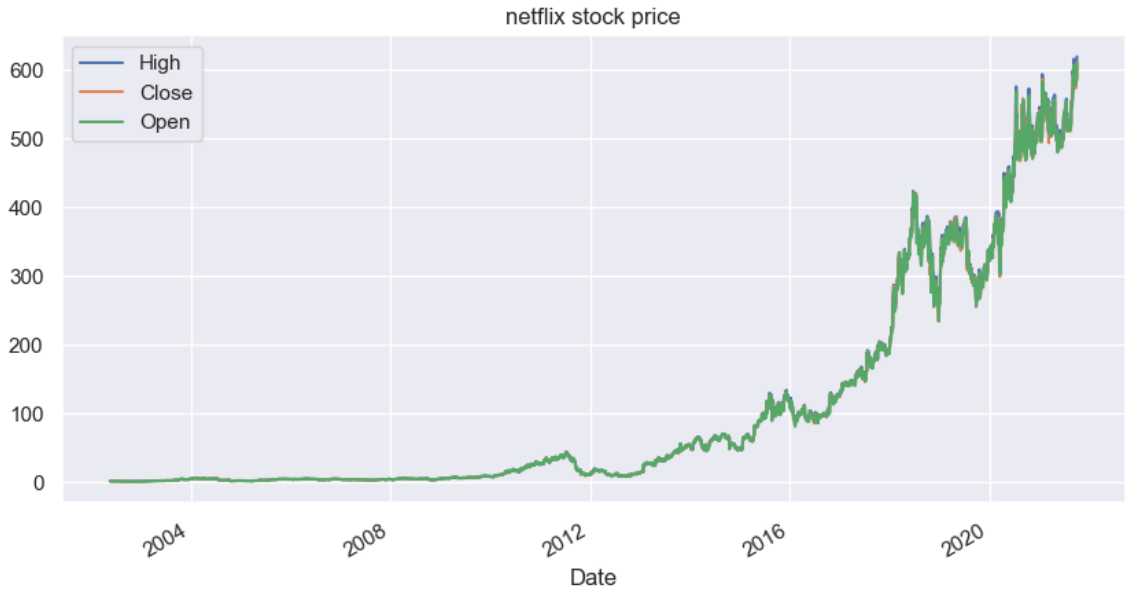
VOLUME V/S TIME

In [7]:
```
sns.lineplot(x=df.index,y=df['Volume'],label='volume')
plt.title='Volume of stock v/s time'
plt.show()
```



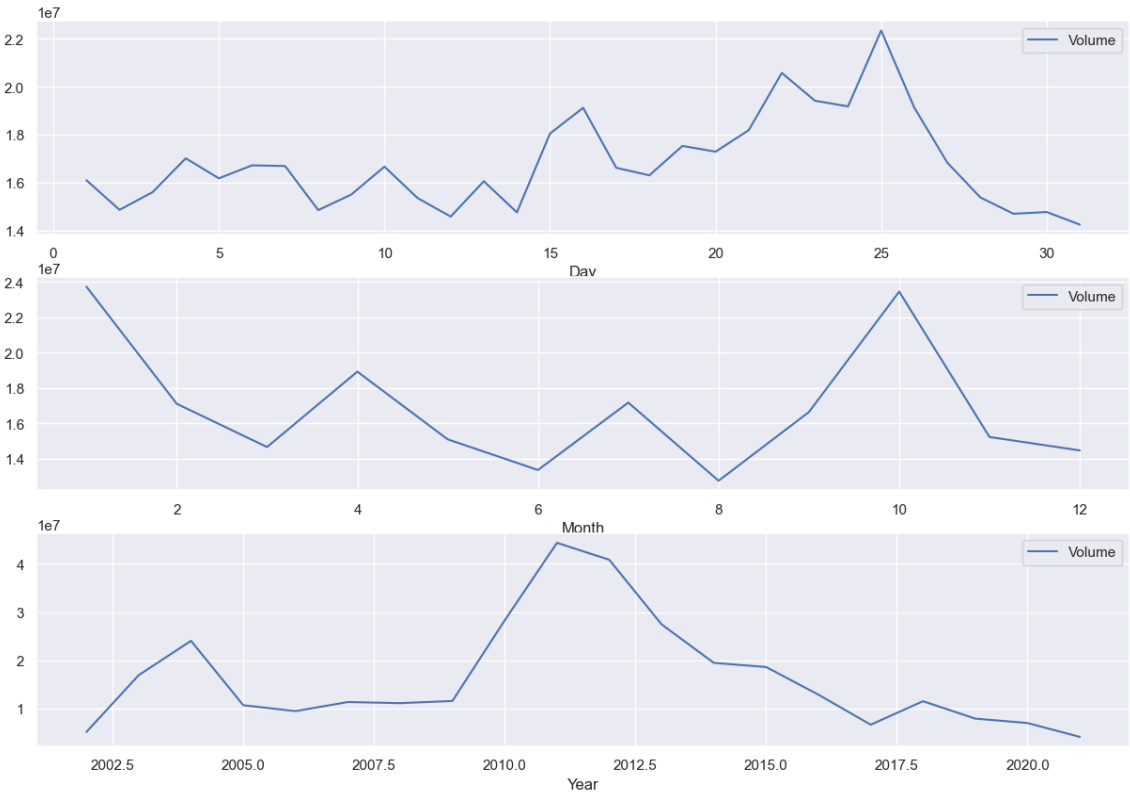
STOCK PRICE HIGH,OPEN,CLOSE

In [8]:
```
df.plot(y=['High','Close','Open'],title='netflix stock price')
plt.show()
```



NETFLIX STOCK PRICE -DAY,MONTH,YEAR WISE

In [9]:
```
fig,(ax1,ax2,ax3)=plt.subplots(3, figsize=(15,10))
df.groupby(df.index.day).mean().plot(y='Volume',ax=ax1,xlabel='Day')
df.groupby(df.index.month).mean().plot(y='Volume',ax=ax2,xlabel='Month')
df.groupby(df.index.year).mean().plot(y='Volume',ax=ax3,xlabel='Year')
plt.show()
```



TOP-5 DATES WITH HIGHEST STOCK PRICE

In [10]:
```
a=df.sort_values(by='High',ascending=False).head(5)
```

In [12]:
```
a
```

Out[12]:

Date	Open	High	Low	Close	Adj Close	Volume
2021-09-30	608.049988	619.000000	608.049988	610.340027	610.340027	6612600
2021-09-08	603.840027	615.599976	595.710022	606.049988	606.049988	5424500
2021-09-07	594.690002	613.849976	593.989990	606.710022	606.710022	5821400
2021-09-29	589.010010	609.880005	588.010010	599.059998	599.059998	6221000
2021-09-10	598.159973	609.450012	593.669983	598.719971	598.719971	3948000

TOP-5 DATES WITH Lowest STOCK PRICE

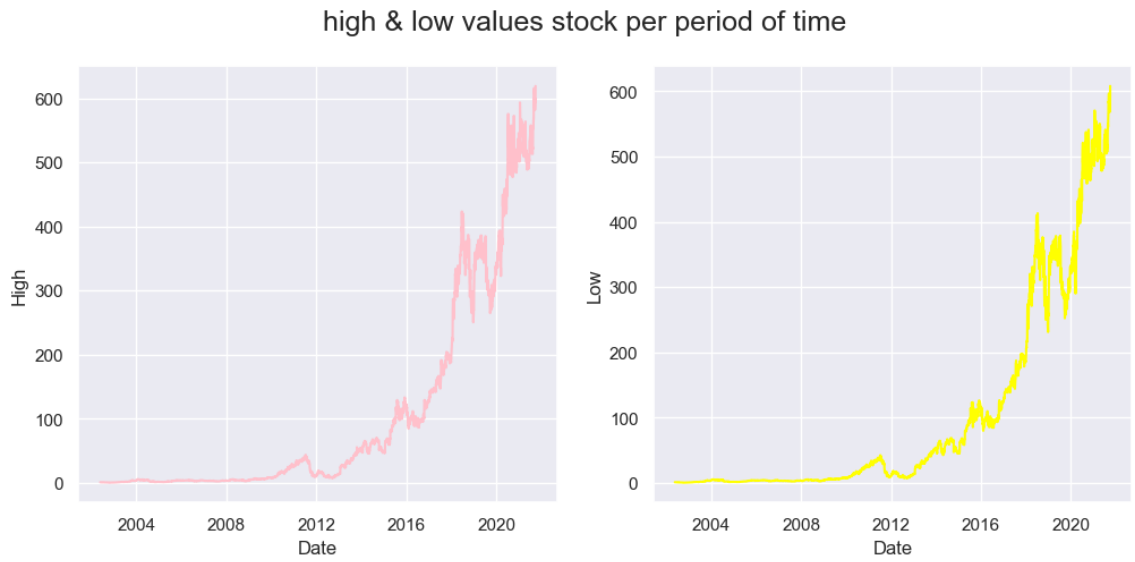
In [98]:
```
b=df.sort_values(by='Low',ascending=True).head(5)
```

In [99]:
```
b
```

Out[99]:

Date	Open	High	Low	Close	Adj Close	Volume
2002-10-10	0.377857	0.525000	0.346429	0.506429	0.506429	13577200
2002-10-09	0.410000	0.410714	0.347143	0.372857	0.372857	5982200
2002-10-07	0.450000	0.458571	0.382143	0.412143	0.412143	15724800
2002-10-08	0.410714	0.427857	0.390714	0.405000	0.405000	4531800
2002-10-16	0.529286	0.532857	0.442857	0.459286	0.459286	5800200

In [84]:
```
fig,axes=plt.subplots(nrows=1,ncols=2,sharex=True,figsize=(12,5))
fig.suptitle('high & low values stock per period of time ',fontsize=18)
sns.lineplot(ax=axes[0],y=df['High'],x=df.index,color='pink')
sns.lineplot(ax=axes[1],y=df['Low'],x=df.index,color='yellow')
plt.show()
```



In [ ]:

In [ ]: