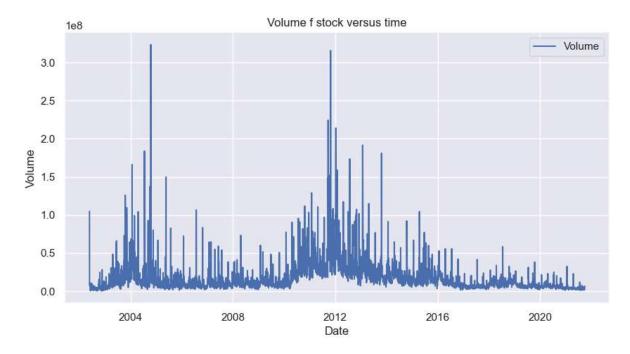
NETFLIX STOCK ANALYSIS PROJECT

```
In [1]:
         import numpy as np
         import pandas as pd
         import matplotlib.pyplot as plt
         import seaborn as sns
         from datetime import datetime
In [5]: df=pd.read csv("Netflix.csv")
In [6]: df.head()
Out[6]:
                  Date
                                                           Adj Close
                                                                        Volume
                          Open
                                   High
                                             Low
                                                     Close
            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
         sns.set(rc={'figure.figsize' :(10,5)})
In [7]:
In [8]:
        df['Date']=pd.to datetime(df['Date']) # change date column into index
         df=df.set index('Date')
         df.head()
Out[8]:
                       Open
                                 High
                                                  Close Adj Close
                                                                     Volume
                                          Low
               Date
          2002-05-23 1.156429 1.242857 1.145714 1.196429
                                                         1.196429
                                                                  104790000
```

2002-05-30 1.107857 1.107857 1.071429 1.071429

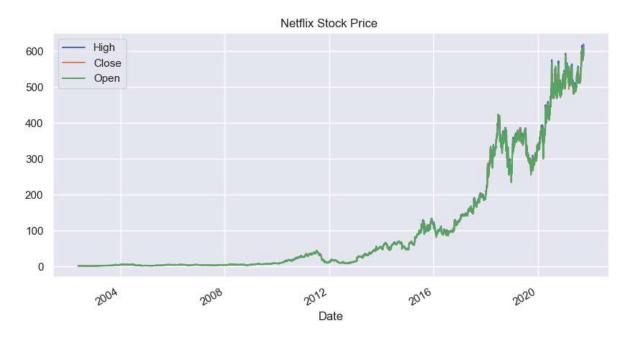
```
In [9]: sns.lineplot(x=df.index, y=df['Volume'], label='Volume')
plt.title('Volume f stock versus time')
```

Out[9]: Text(0.5, 1.0, 'Volume f stock versus time')



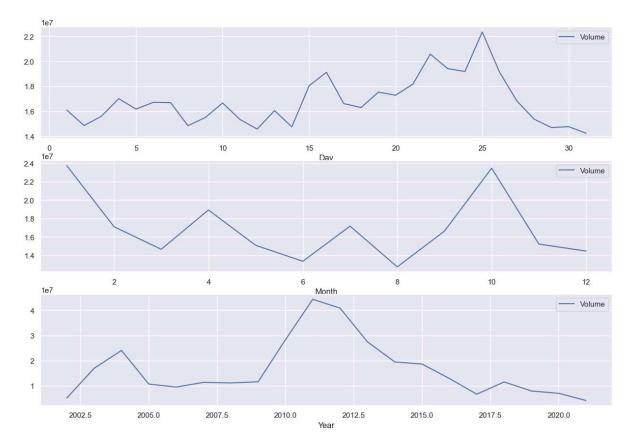
In [11]: df.plot(y=['High','Close','Open'], title= 'Netflix Stock Price ')

Out[11]: <Axes: title={'center': 'Netflix Stock Price '}, xlabel='Date'>



```
In [16]: 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')
```

Out[16]: <Axes: xlabel='Year'>



Dates with Highest Stock Price

In [17]: df

Out[17]:

	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
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
2021-09-24	592.500000	592.979980	583.640015	592.390015	592.390015	2124800
2021-09-27	587.950012	593.580017	576.929993	592.640015	592.640015	2504700
2021-09-28	589.000000	599.539978	580.159973	583.849976	583.849976	4431100
2021-09-29	589.010010	609.880005	588.010010	599.059998	599.059998	6221000
2021-09-30	608.049988	619.000000	608.049988	610.340027	610.340027	6612600
2002-05-30 2021-09-24 2021-09-27 2021-09-28 2021-09-29	1.107857 592.500000 587.950012 589.000000 589.010010	1.107857 592.979980 593.580017 599.539978 609.880005	1.071429 583.640015 576.929993 580.159973 588.010010	1.071429 592.390015 592.640015 583.849976 599.059998	1.071429 592.390015 592.640015 583.849976 599.059998	10154200 2124800 2504700 4431100 6221000

4874 rows × 6 columns

```
In [19]: a= df.sort_values(by='High', ascending=False).head(5)
a['High']
```

```
Out[19]: 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

```
In [20]: b=df.sort_values(by='Low', ascending=True).head(5)
b['Low']
```

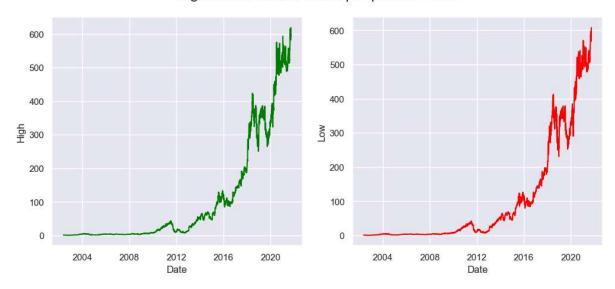
Out[20]: Date

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 [25]: 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='green')
    sns.lineplot(ax=axes[1], y=df['Low'], x=df.index, color='red')
```

Out[25]: <Axes: xlabel='Date', ylabel='Low'>

High & Low Values Stock per period of time



In []: