In [6]:
```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns

from datetime import datetime #used bcz date is not given in proper format in dbase
```

In [7]:
```
df= pd.read_csv("Netflix.csv")
df
```

Out[7]:

	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	11104000
2	2002-05-28	1.213571	1.223143	1.137143	1.137143	1.137143	8809600
3	2002-05-29	1.164286	1.164286	1.080714	1.103571	1.103571	6797600
4	2002-05-30	1.107857	1.107857	1.071429	1.071429	1.071429	10154200
...	...	...	...	...	...	...	...
4680	2021-09-24	592.500000	592.979980	583.640015	592.390015	592.390015	2124600
4679	2021-09-27	587.950012	593.580017	576.929993	582.640015	582.640015	2504700
4678	2021-09-28	589.000000	589.539978	580.159973	583.849976	583.849976	4431100
4677	2021-09-29	588.010010	609.880005	588.010010	599.059990	599.059990	6221000
4676	2021-09-30	606.040988	619.000000	600.040988	610.340027	610.340027	6613600

4674 rows × 7 columns

In [8]:
```
df.head()
```

Out[8]:

	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	11104000
2	2002-05-28	1.213571	1.223143	1.137143	1.137143	1.137143	8809600
3	2002-05-29	1.164286	1.164286	1.080714	1.103571	1.103571	6797600
4	2002-05-30	1.107857	1.107857	1.071429	1.071429	1.071429	10154200

In [ ]:

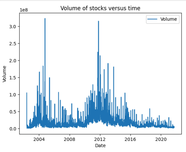
In [10]:
```
df['Date']=pd.to_datetime(df['Date'])
df=df.set_index('Date')
df
```

Out[10]:

	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	11104000
2002-05-28	1.213571	1.223143	1.137143	1.137143	1.137143	8809600
2002-05-29	1.164286	1.164286	1.080714	1.103571	1.103571	6797600
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	2124600
2021-09-27	587.950012	593.580017	576.929993	582.640015	582.640015	2504700
2021-09-28	589.000000	589.539978	580.159973	583.849976	583.849976	4431100
2021-09-29	588.010010	609.880005	588.010010	599.059990	599.059990	6221000
2021-09-30	606.040988	619.000000	600.040988	610.340027	610.340027	6613600

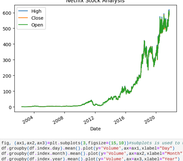
4674 rows × 6 columns

In [17]:
```
sns.lineplot(df.index,df['Volume'],data=df,label='Volume')#label is the side upside bar
plt.title("Volume of stocks versus time")
plt.show()
```



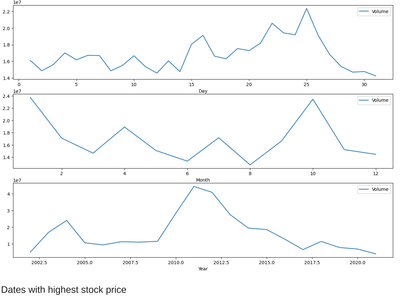
In [23]:
```
df.plot(y=['High','Close','Open'],title="Netflix Stock Analysis")
```

Out[23]:
```
<Axes: title={'center': 'Netflix Stock Analysis'}, xlabel='Date'>
```



In [54]:
```
fig, (ax1,ax2,ax3)=plt.subplots(3,figsize=(15,10))#subplots is used to make more than 1 graph in single visualization
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[54]:
```
<Axes: xlabel='Year'>
```



Dates with highest stock price

In [56]:
```
df
```

Out[56]:

	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	11104000
2002-05-28	1.213571	1.223143	1.137143	1.137143	1.137143	8809600
2002-05-29	1.164286	1.164286	1.080714	1.103571	1.103571	6797600
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	2124600
2021-09-27	587.950012	593.580017	576.929993	582.640015	582.640015	2504700
2021-09-28	589.000000	589.539978	580.159973	583.849976	583.849976	4431100
2021-09-29	588.010010	609.880005	588.010010	599.059990	599.059990	6221000
2021-09-30	606.040988	619.000000	600.040988	610.340027	610.340027	6613600

4674 rows × 6 columns

In [58]:
```
a=df.sort_values(by="High",ascending=False).head(5)
```

```
a["High"]
```

Out[58]:
```
Date
2021-09-30    619.000000
2021-08-06    615.599976
2021-08-05    611.989990
2021-09-29    609.880005
2021-09-10    609.450012
Name: High, dtype: float64
```

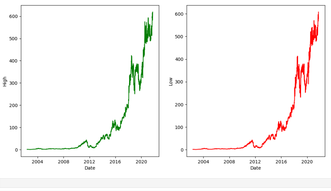
In [62]:
```
b=df.sort_values(by="High",ascending=True).head(5)#top 5 Lowest Values
```

```
b["High"]
```

Out[62]:
```
Date
2002-10-09    0.410714
2002-10-08    0.416071
2002-10-07    0.418571
2002-10-10    0.526000
2002-10-11    0.528571
Name: High, dtype: float64
```

In [70]:
```
fig, axes=plt.subplots(nrows=1,ncols=2,figsize=(12,6))
fig.suptitle("High and Low Value Of Stocks Per Period Of Time")
sns.lineplot(axes[0],y=df['High'],x=df.index,color="green")
sns.lineplot(axes[1],y=df['Low'],x=df.index,color="red")
```

Out[70]:
```
<Axes: xlabel='Date', ylabel='Low'>
```



In [ ]: