

## Data Visualization for Finance Data

```
In [82]: import pandas as pd
import numpy as np
import seaborn as sns
import matplotlib.pyplot as plt
import matplotlib
```

```
In [83]: #Read data from a csv file
dstock = pd.read_csv('results.csv')
dstock
```

Out[83]:

	name	hour	ts	highest_price
0	BYND	9	2021-05-11 09:55:00-04:00	104.709999
1	BYND	10	2021-05-11 10:55:00-04:00	106.460999
2	BYND	11	2021-05-11 11:55:00-04:00	107.695000
3	BYND	12	2021-05-11 12:55:00-04:00	108.839996
4	BYND	13	2021-05-11 13:45:00-04:00	110.660004
...	...	...	...	...
68	TTD	11	2021-05-11 11:50:00-04:00	494.500000
69	TTD	12	2021-05-11 12:00:00-04:00	491.440002
70	TTD	13	2021-05-11 13:35:00-04:00	497.220001
71	TTD	14	2021-05-11 14:45:00-04:00	508.669891
72	TTD	15	2021-05-11 15:50:00-04:00	515.531311

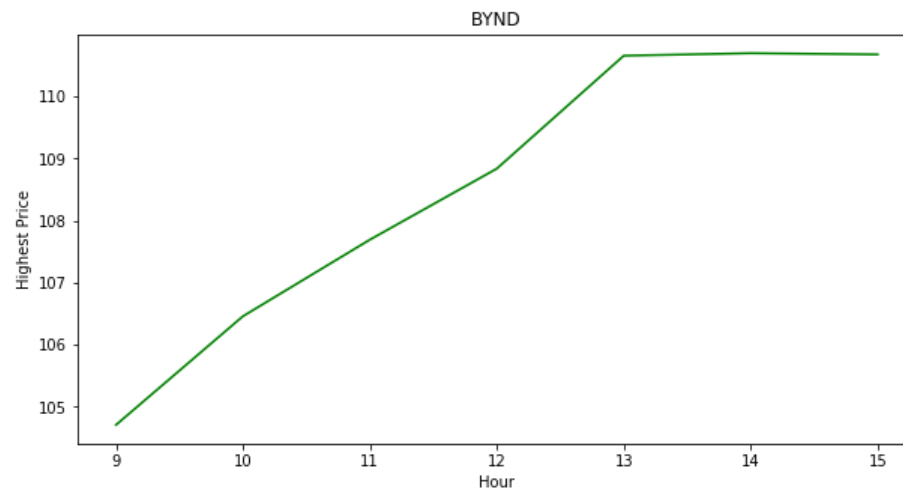
73 rows × 4 columns

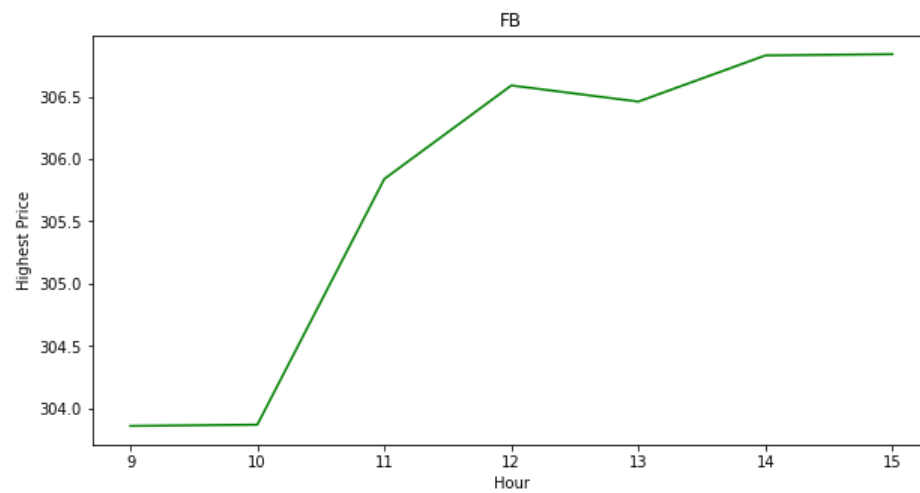
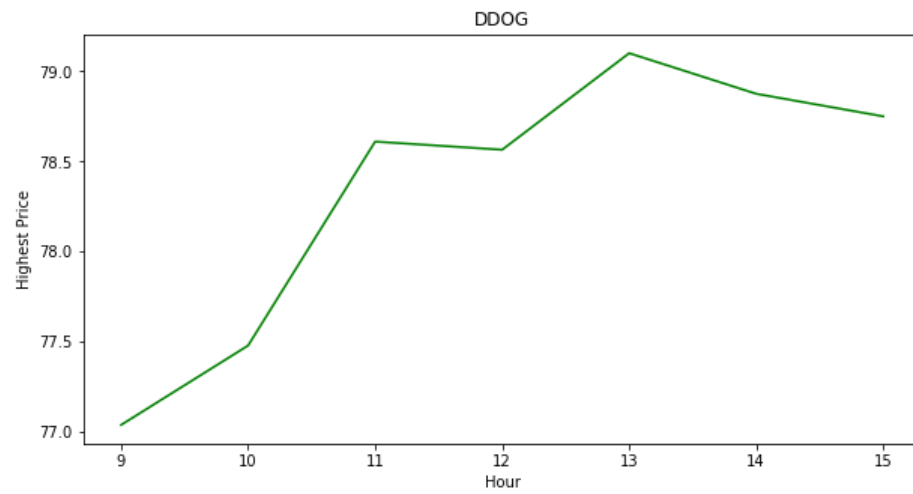
```
In [84]: #Create a stock List
stock_list = dstock['name'].unique().tolist()
```

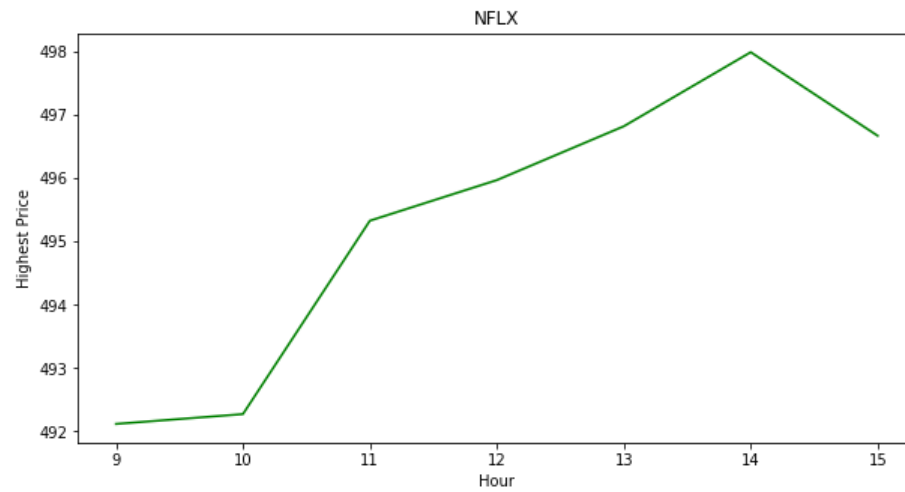
In [85]: `#Create graphes showing hourly highest price for each stock in the list`

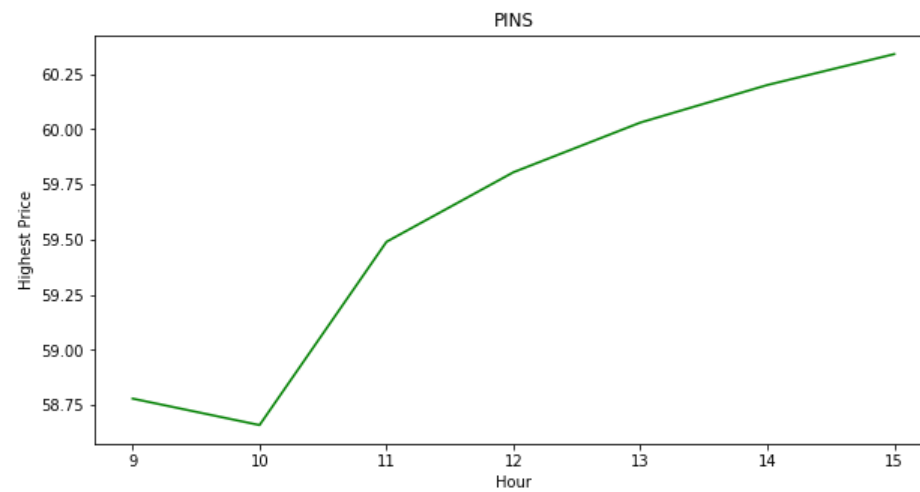
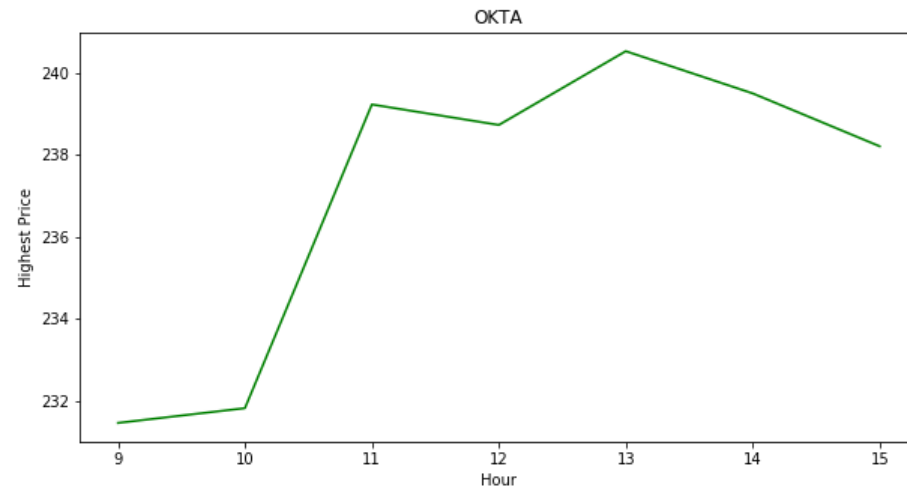
```
x = dstock['hour']
y = dstock['highest_price']

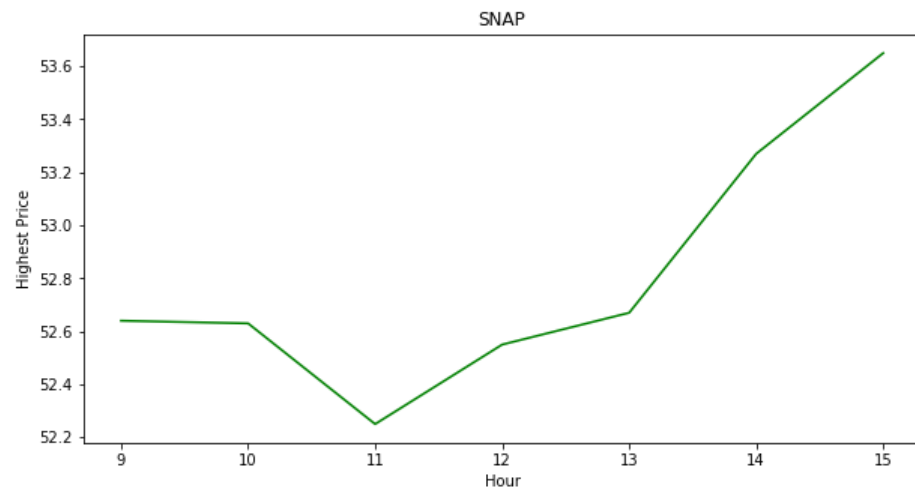
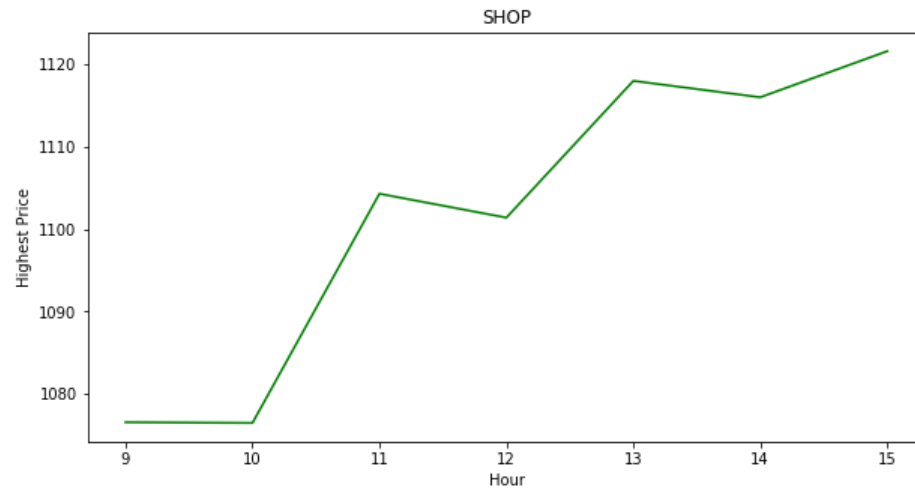
for stock in stock_list:
    df = dstock[dstock['name']==stock]
    x = df['hour']
    y = df['highest_price']
    plt.figure(figsize=(10,5))
    plt.plot(x,y,color='green')
    plt.title(f"{stock}")
    plt.xlabel("Hour")
    plt.ylabel("Highest Price")
    plt.show()
    print("\n")
```

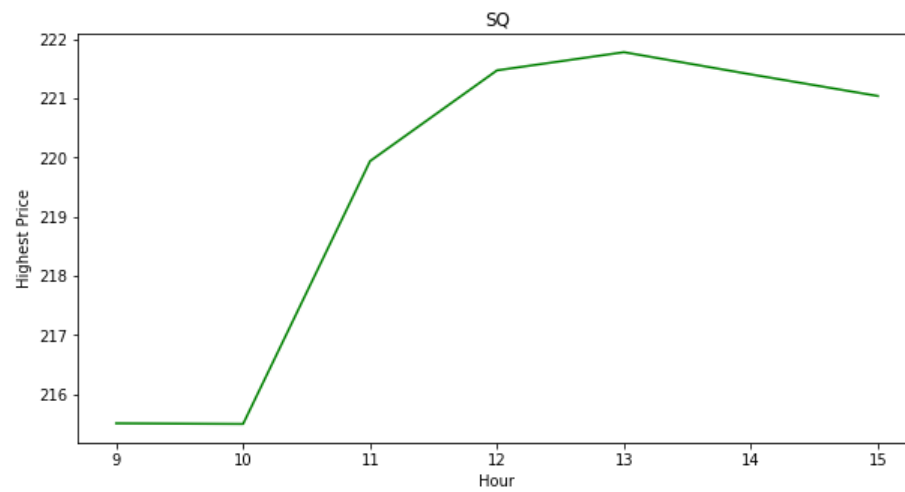


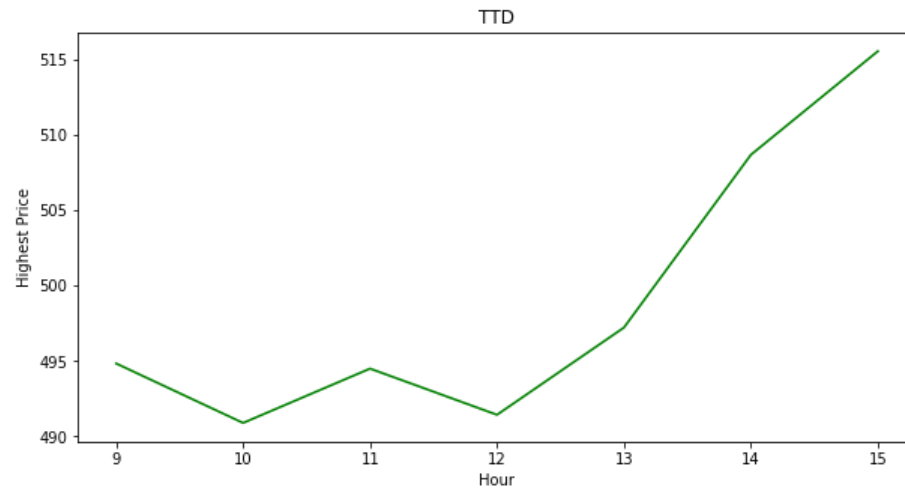












## Average Stock Prices in The Stock List



```
In [86]: dict1={}
for stock in stock_list:
    average_price = dstock[dstock['name']==stock]['highest_price'].mean()
    print(f"Average Price of '{stock}' :", average_price)
    dict1[stock]=average_price
    print("\n")
```

Average Price of 'BYND' : 109.01622094048395

Average Price of 'DDOG' : 78.34571511404855

Average Price of 'FB' : 305.75561959402904

Average Price of 'NFLX' : 495.4805145263672

Average Price of 'OKTA' : 237.0685577392578

Average Price of 'PINS' : 59.61500004359654

Average Price of 'SHOP' : 1102.0514264787946

Average Price of 'SNAP' : 52.80857140677316

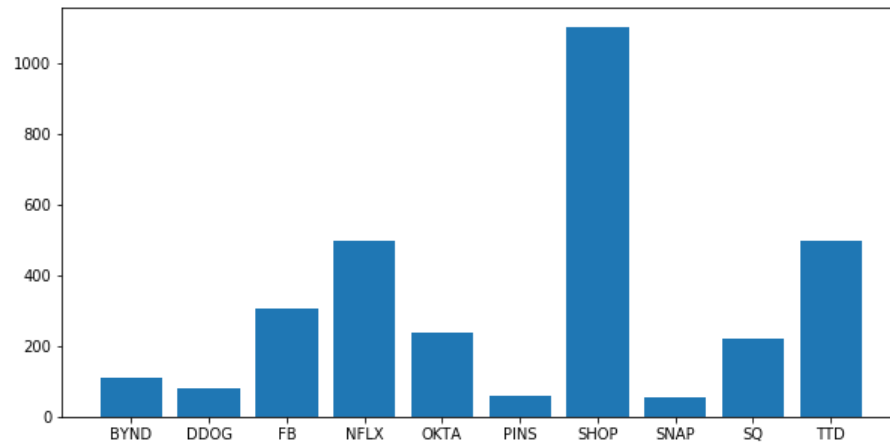
Average Price of 'SQ' : 219.52115522112166

Average Price of 'TTD' : 499.0144566127232

```
In [87]: dict1
```

```
Out[87]: {'BYND': 109.01622094048395,
          'DDOG': 78.34571511404855,
          'FB': 305.75561959402904,
          'NFLX': 495.4805145263672,
          'OKTA': 237.0685577392578,
          'PINS': 59.61500004359654,
          'SHOP': 1102.0514264787946,
          'SNAP': 52.80857140677316,
          'SQ': 219.52115522112166,
          'TTD': 499.0144566127232}
```

```
In [88]: ind = np.arange(len(dict1))  
plt.figure(figsize=(10,5))  
plt.bar(ind, list(dict1.values()))  
plt.xticks(ind, list(dict1.keys()))  
plt.show()
```



```
In [ ]:
```