

Using the yfinance module, we have collected one day (May 11, 2021) of data of high and low prices for the companies listed below, each at a one minute interval:

- Facebook (FB)
- Shopify (SHOP)
- Beyond Meat (BYND)
- Netflix (NFLX)
- Pinterest (PINS)
- Square (SQ)
- The Trade Desk (TTD)
- Okta (OKTA)
- Snap (SNAP)
- Datadog (DDOG)

```
In [8]: #Importing necessary modules

import numpy as np
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
%matplotlib inline
```

```
In [25]: df=pd.read_csv('results.csv')
```

```
In [26]: df.head()
```

```
Out[26]:
```

	company	hour	datetime	hourly_high_price
0	bynd	9	2021-05-11 09:59:00-04:00	104.709999
1	bynd	9	2021-05-11 09:59:00-04:00	104.709999
2	bynd	9	2021-05-11 09:59:00-04:00	104.709999
3	bynd	9	2021-05-11 09:59:00-04:00	104.709999
4	bynd	9	2021-05-11 09:59:00-04:00	104.709999

Let's first look at the highest hourly price for each of our stocks, altogether at once, and see if we can spot any dramatic fluctuations.

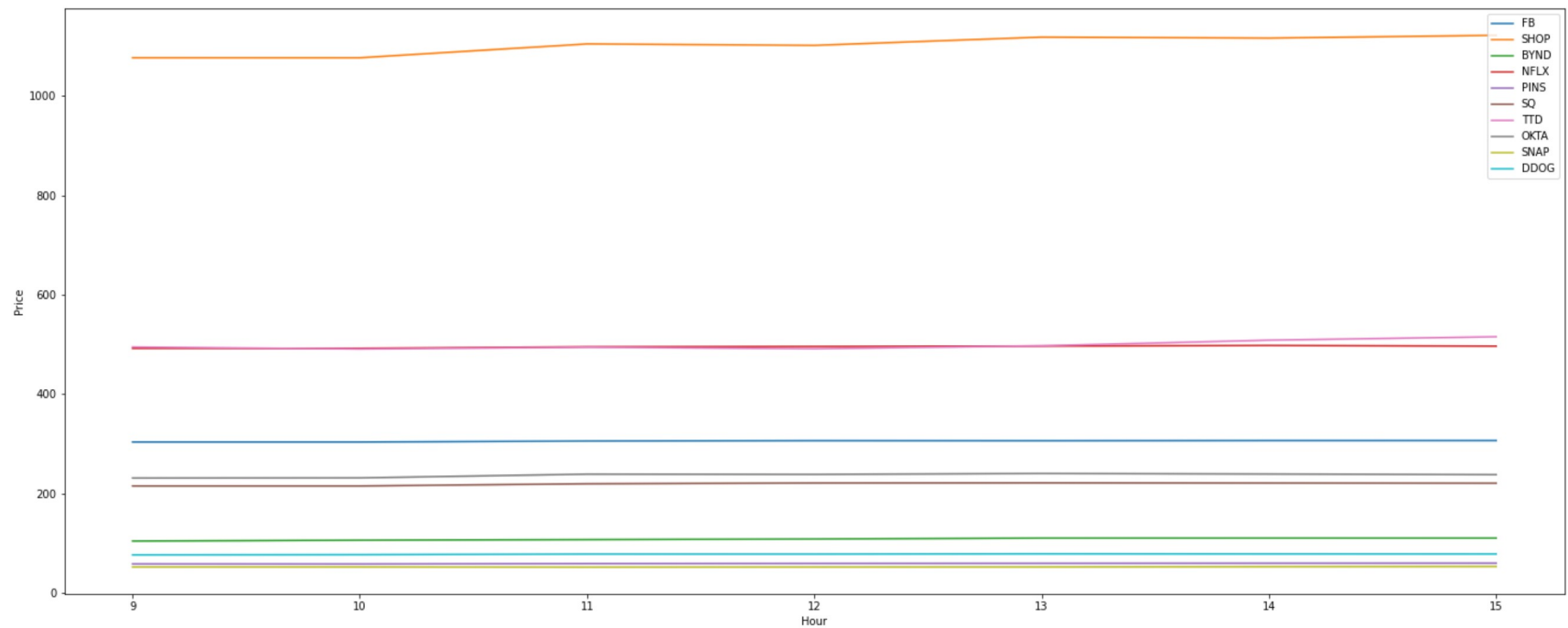
```
In [27]: fb_df = df[(df['company'] == "fb")]
shop_df = df[(df['company'] == "shop")]
bynd_df = df[(df['company'] == "bynd")]
nflx_df = df[(df['company'] == "nflx")]
pins_df = df[(df['company'] == "pins")]
sq_df = df[(df['company'] == "sq")]
ttd_df = df[(df['company'] == "ttd")]
okta_df = df[(df['company'] == "okta")]
snap_df = df[(df['company'] == "snap")]
ddog_df = df[(df['company'] == "ddog")]

fig = plt.figure(figsize=(25,10))

line_company = sns.lineplot(x="hour", y="hourly_high_price", data=fb_df, label='FB')
line_company = sns.lineplot(x="hour", y="hourly_high_price", data=shop_df, label='SHOP')
line_company = sns.lineplot(x="hour", y="hourly_high_price", data=bynd_df, label='BYND')
line_company = sns.lineplot(x="hour", y="hourly_high_price", data=nflx_df, label='NFLX')
line_company = sns.lineplot(x="hour", y="hourly_high_price", data=pins_df, label='PINS')
line_company = sns.lineplot(x="hour", y="hourly_high_price", data=sq_df, label='SQ')
line_company = sns.lineplot(x="hour", y="hourly_high_price", data=ttd_df, label='TTD')
line_company = sns.lineplot(x="hour", y="hourly_high_price", data=okta_df, label='OKTA')
line_company = sns.lineplot(x="hour", y="hourly_high_price", data=snap_df, label='SNAP')
line_company = sns.lineplot(x="hour", y="hourly_high_price", data=ddog_df, label='DDOG')

line_company.set(xlabel='Hour', ylabel='Price')

plt.show()
```



Let's next look to see the highest hourly price of the day in total.

```
In [39]: highest_totDay = df.groupby('company').max()['hourly_high_price'].to_frame()
```

```
In [40]: highest_totDay
```

```
Out[40]:
```

hourly_high_price	
company	
bynd	110.699997
ddog	79.099998
fb	306.839996
nflx	497.989990
okta	240.529999
pins	60.340000
shop	1121.589966

hourly_high_price

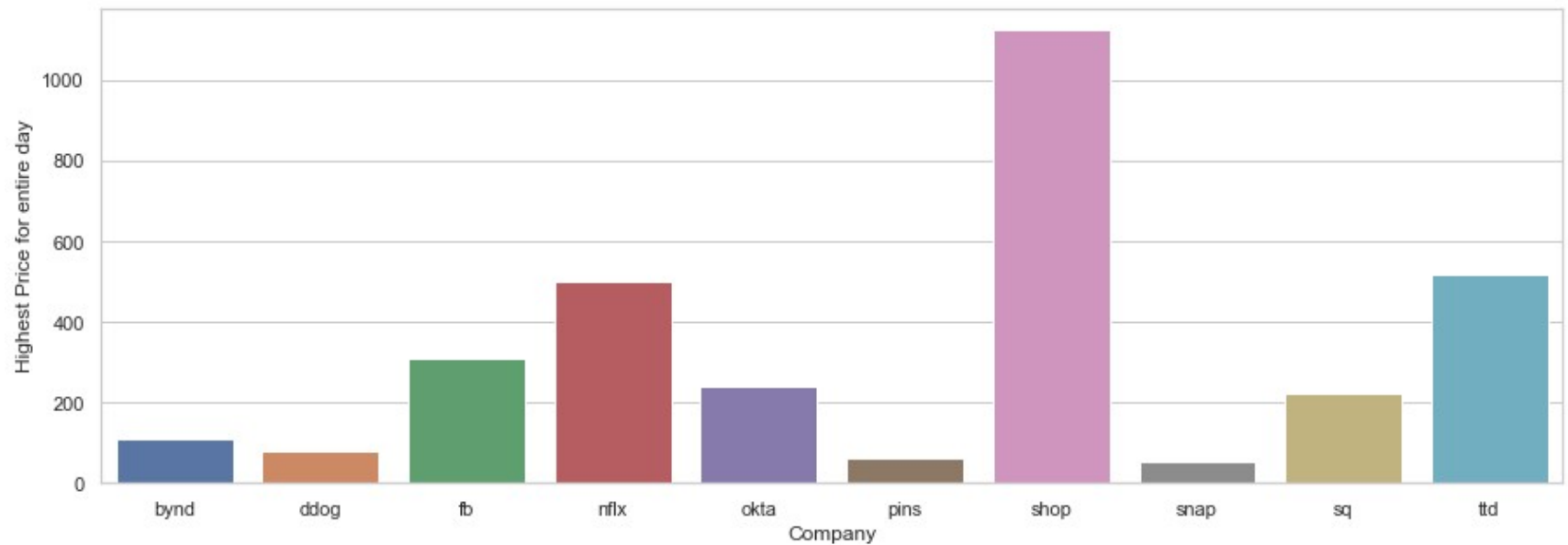
company
snap

53.650002

```
In [41]: highest_totDay.reset_index(inplace=True)
```

```
In [43]: sns.set(style="whitegrid")
fig = plt.figure(figsize=(15,5))
bar_company = sns.barplot(x="company", y="hourly_high_price", data=highest_totDay)
bar_company.set(xlabel='Company', ylabel='Highest Price for entire day')

plt.show()
```



```
In [ ]: We can see that overall, the prices of each share of most companies remained quite steady.
```