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In [41]: import pandas as pd
import numpy as np
import matplotlib
import matplotlib.pyplot as plt
import seaborn as sns
%matplotlib inline
```

```
In [42]: df = pd.read_csv("C:\\Users\\ellie\\OneDrive\\Desktop\\project03\\results.csv")
df.head(10)
```

```
Out[42]:
```

	ticker	hour	datetime	highest_hourly_stock_price
0	BYND	10	2021-11-30 09:35:00-05:00	74.54
1	BYND	10	2021-11-30 09:35:00-05:00	74.54
2	BYND	10	2021-11-30 09:35:00-05:00	74.54
3	BYND	11	2021-11-30 10:00:00-05:00	73.28
4	BYND	11	2021-11-30 10:00:00-05:00	73.28
5	BYND	11	2021-11-30 10:00:00-05:00	73.28
6	BYND	12	2021-11-30 11:20:00-05:00	71.04
7	BYND	12	2021-11-30 11:20:00-05:00	71.04
8	BYND	12	2021-11-30 11:20:00-05:00	71.04
9	BYND	13	2021-11-30 12:30:00-05:00	71.02

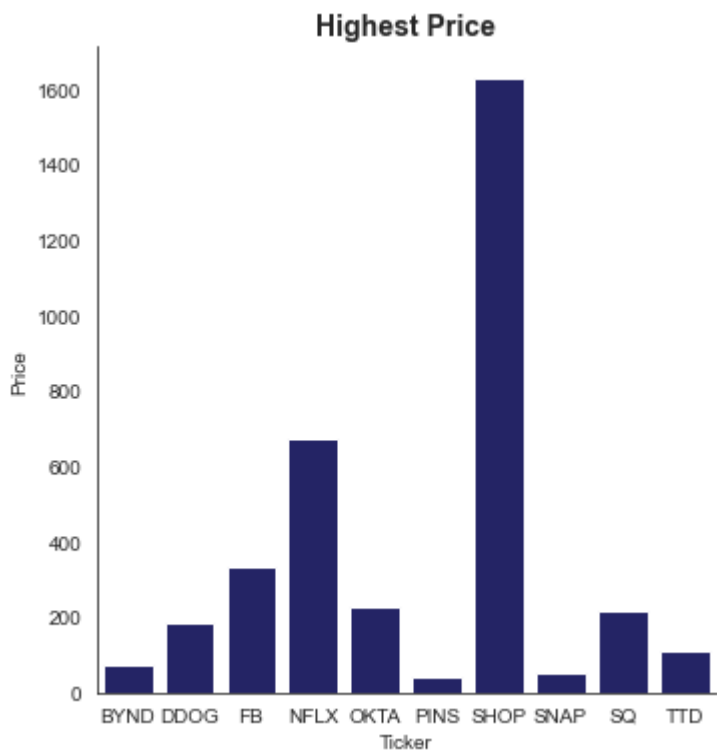
## Data Visualization 1

```
In [43]: sns.set_style("white")
plt.figure(figsize = (8, 6))
df1 = df.groupby('ticker').max()['highest_hourly_stock_price'].to_frame()
df1.reset_index(inplace=True)

ax = sns.catplot(x='ticker',y='highest_hourly_stock_price',data=df1, kind='bar', color

plt.title("Highest Price", fontsize = 14, weight = "bold")
plt.xlabel("Ticker")
plt.ylabel("Price")
sns.despine()
plt.show()
```

<Figure size 576x432 with 0 Axes>

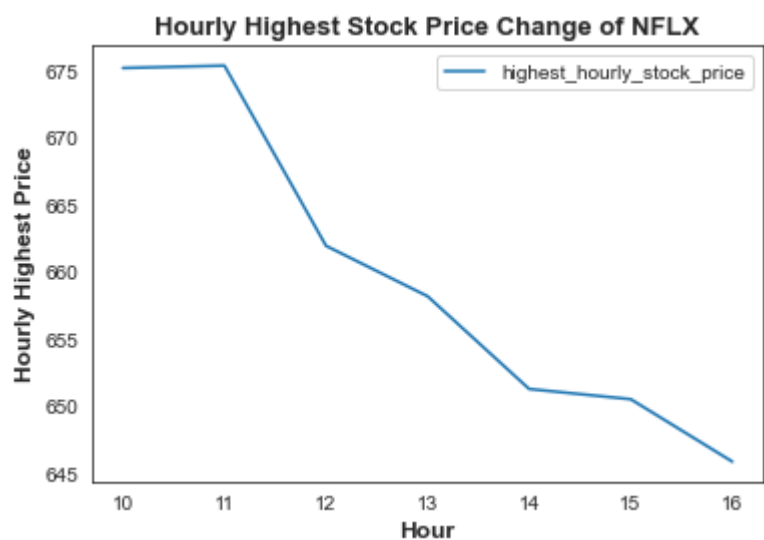
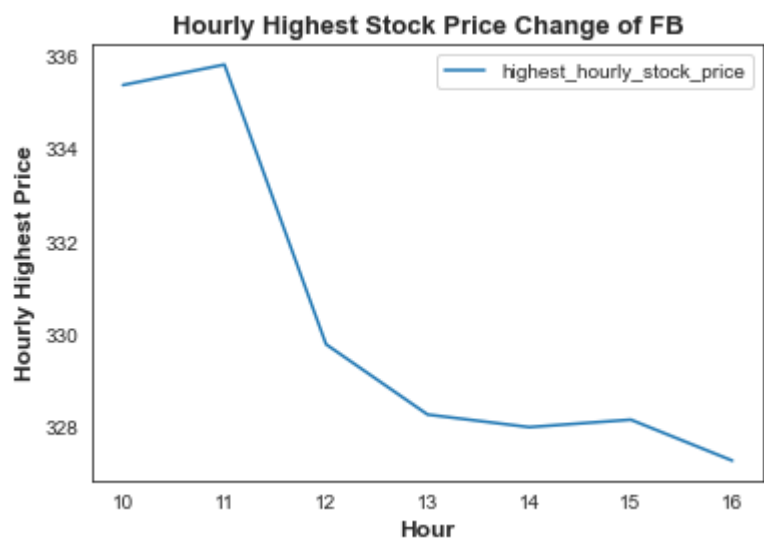
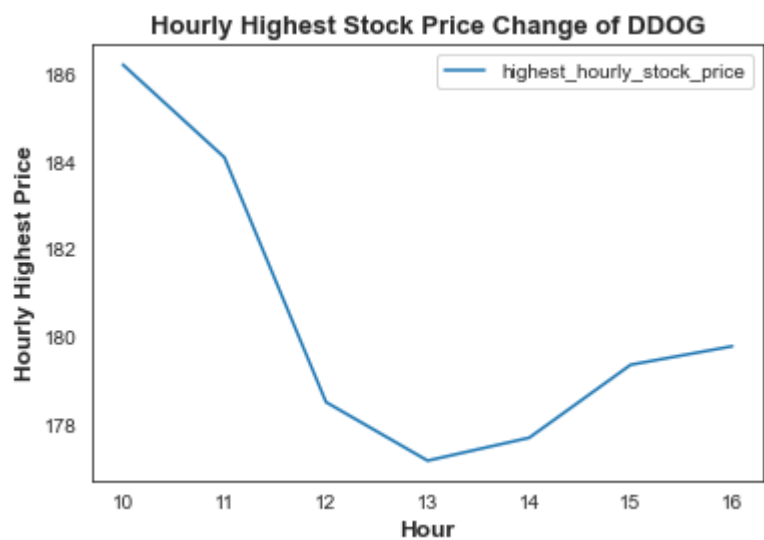


## Data Visualization 2

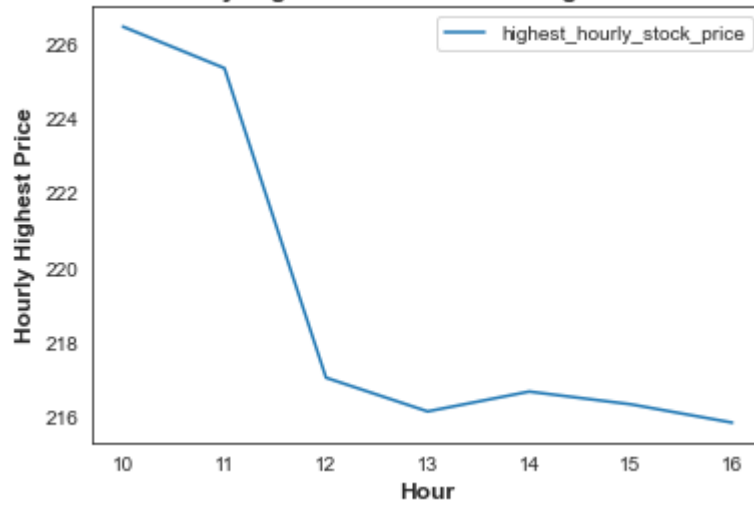
```
In [44]: df = df[['ticker', 'highest_hourly_stock_price', 'hour']]

for i in df['ticker'].unique():
    plot = df[df['ticker'] == i]
    plot.set_index('hour').plot(kind='line')
    plt.title(f'Hourly Highest Stock Price Change of {i}', fontsize = 13, fontweight =
    plt.xlabel("Hour", fontsize = 12, fontweight = "bold")
    plt.ylabel("Hourly Highest Price", fontsize = 12, fontweight = "bold")
    plt.show()
```

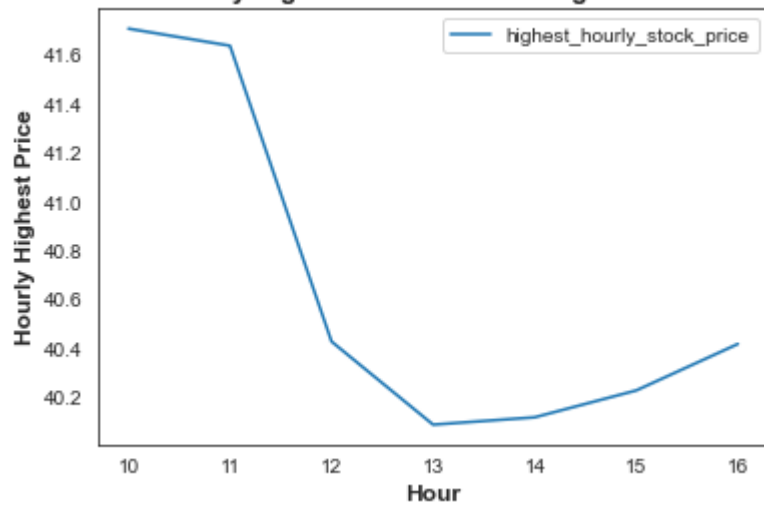




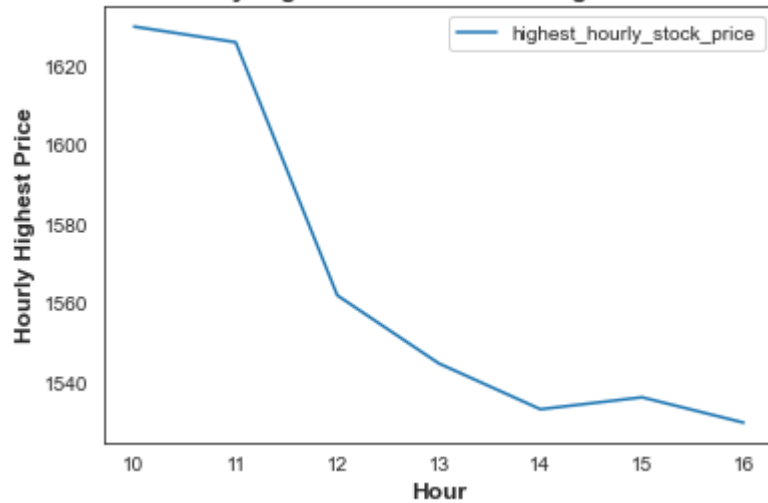
Hourly Highest Stock Price Change of OKTA

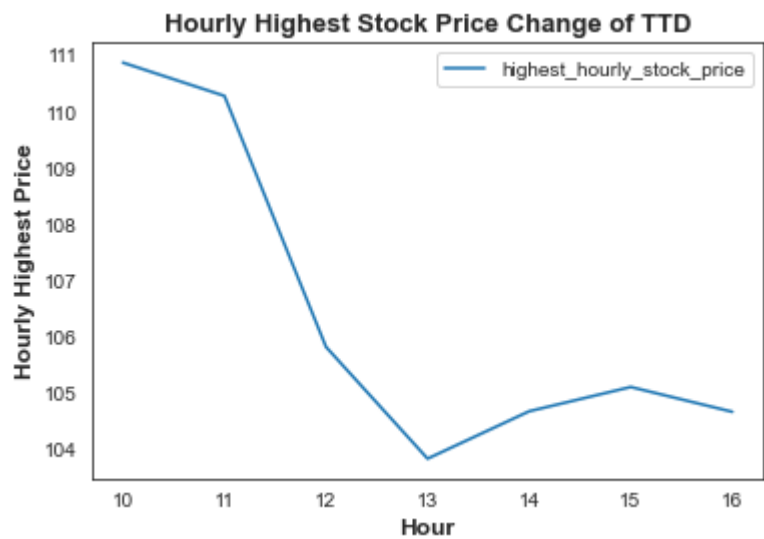
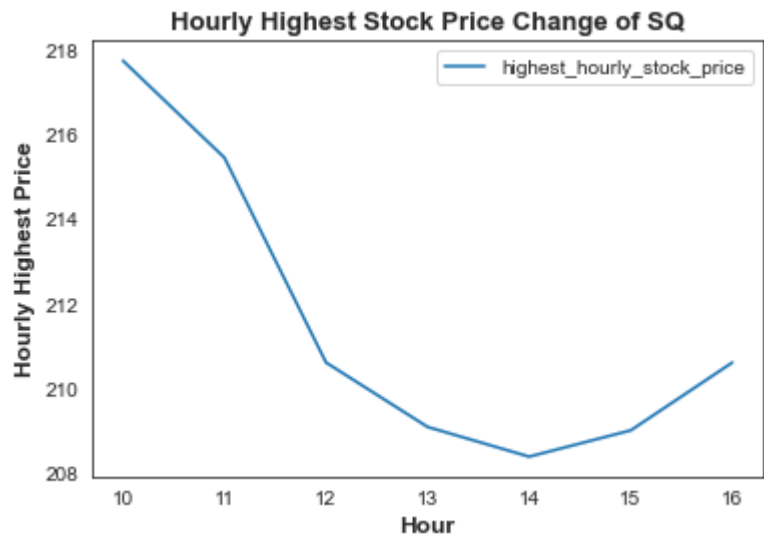
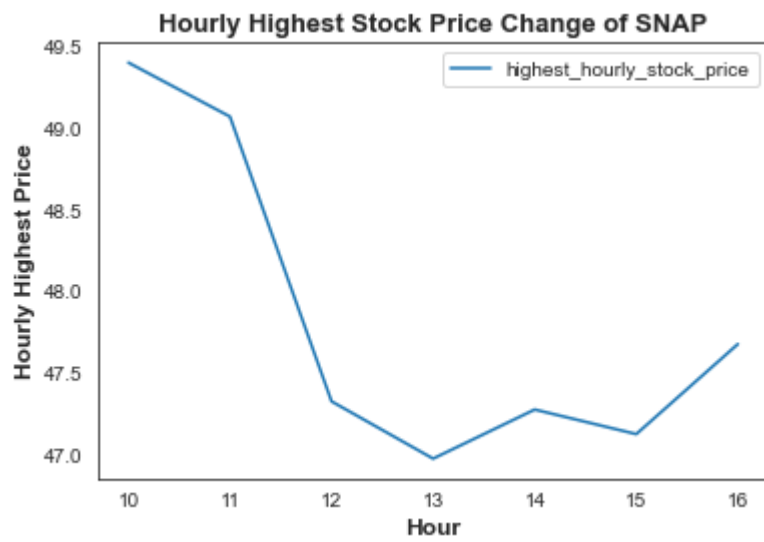


Hourly Highest Stock Price Change of PINS



Hourly Highest Stock Price Change of SHOP





In [ ]: