Question 1: Use yfinance to Extract Stock Data

Using the `Ticker` function enter the ticker symbol of the stock we want to extract data on to create a ticker object. The stock is Tesla and its ticker symbol is `TSLA`.

In [4]:
```
Tesla=yf.Ticker("TSLA")
```

Using the ticker object and the function `history` extract stock information and save it in a dataframe named `tesla_data`. Set the `period` parameter to `max` so we get information for the maximum amount of time.

In [5]:
```
tesla_data=Tesla.history(period="max")
```

Reset the index using the `reset_index(inplace=True)` function on the tesla_data DataFrame and display the first five rows of the `tesla_data` dataframe using the `head` function. Take a screenshot of the results and code from the beginning of Question 1 to the results below.

In [31]:
```
tesla_data.reset_index(inplace=True)
tesla_data.head()
```

Out[31]:

	index	Date	Open	High	Low	Close	Volume	Dividends	Stock Splits
0	0	2010-06-29	3.800	5.000	3.508	4.778	93831500	0	0.0
1	1	2010-06-30	5.158	6.084	4.660	4.766	85935500	0	0.0
2	2	2010-07-01	5.000	5.184	4.054	4.392	41094000	0	0.0
3	3	2010-07-02	4.600	4.620	3.742	3.840	25699000	0	0.0
4	4	2010-07-06	4.000	4.000	3.166	3.222	34334500	0	0.0

Question 2: Use Webscraping to Extract Tesla Revenue Data

```
        date = col[0].text
        revenue = col[1].text.replace("$", "").replace(",", "")
        tesla_revenue = tesla_revenue.append({"Date" : date, "Revenue" : revenue}, ignore_index=True)
```

Execute the following line to remove the comma and dollar sign from the `Revenue` column.

In [26]:
```
tesla_revenue["Revenue"] = tesla_revenue['Revenue'].str.replace(',|\$',"")
```

Execute the following lines to remove an null or empty strings in the Revenue column.

In [27]:
```
tesla_revenue.dropna(inplace=True)

tesla_revenue = tesla_revenue[tesla_revenue['Revenue'] != ""]
```

Display the last 5 row of the `tesla_revenue` dataframe using the `tail` function. Take a screenshot of the results.

In [30]:
```
tesla_revenue.tail()
```

Out[30]:

	Date	Revenue
43	2010-09-30	31
44	2010-06-30	28
45	2010-03-31	21
47	2009-09-30	46
48	2009-06-30	27

Question 3: Use yfinance to Extract Stock Data

48	2009-06-30	27

Question 3: Use yfinance to Extract Stock Data

Using the `Ticker` function enter the ticker symbol of the stock we want to extract data on to create a ticker object. The stock is GameStop and its ticker symbol is `GME`.

In [32]:
```
GameStop=yf.Ticker("GME")
```

Using the ticker object and the function `history` extract stock information and save it in a dataframe named `gme_data`. Set the `period` parameter to `max` so we get information for the maximum amount of time.

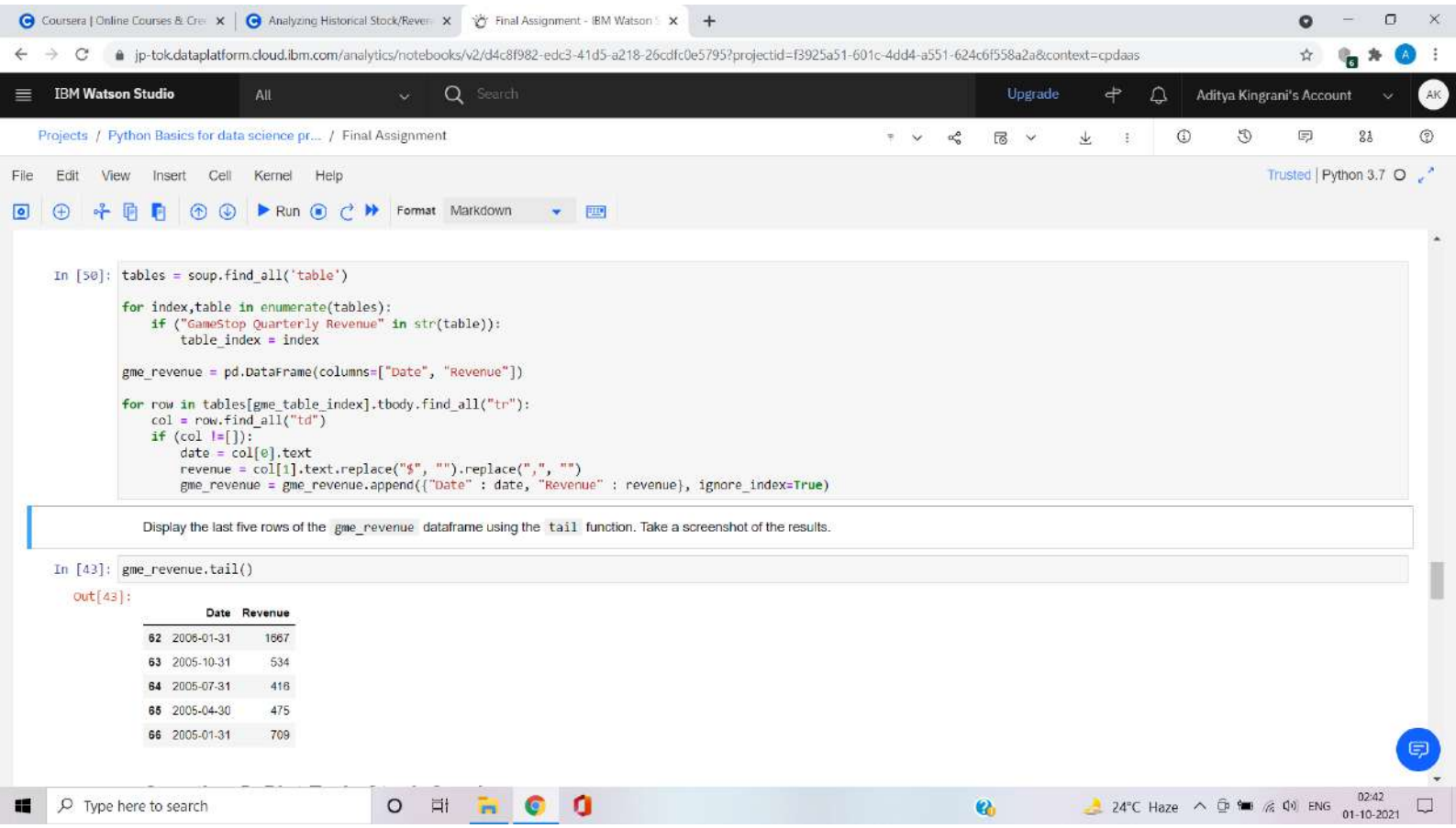
In [33]:
```
gme_data=GameStop.history(period="max")
```

Reset the index using the `reset_index(inplace=True)` function on the gme_data DataFrame and display the first five rows of the `gme_data` dataframe using the `head` function. Take a screenshot of the results and code from the beginning of Question 3 to the results below.

In [34]:
```
gme_data.reset_index(inplace=True)
gme_data.head()
```

Out[34]:

	Date	Open	High	Low	Close	Volume	Dividends	Stock Splits
0	2002-02-13	6.480513	6.773399	6.413183	6.766666	19054000	0.0	0.0
1	2002-02-14	6.850828	6.864294	6.682503	6.733000	2755400	0.0	0.0
2	2002-02-15	6.733001	6.749833	6.632006	6.699336	2097400	0.0	0.0
3	2002-02-19	6.665670	6.665670	6.312188	6.430016	1852600	0.0	0.0
4	2002-02-20	6.463682	6.648839	6.413184	6.648839	1723200	0.0	0.0


Coursera | Online Courses & Cre
Analyzing Historical Stock/Reven
Final Assignment - IBM Watson S
jp-tok.dataplatform.cloud.ibm.com/analytics/notebooks/v2/d4c8f982-edc3-41d5-a218-26cdfc0e5795?projectid=f3925a51-601c-4dd4-a551-624c6f558a2a&context=cpdaas
IBM Watson Studio
All
Search
Upgrade
Aditya Kingrani's Account
Projects / Python Basics for data science pr... / Final Assignment
File Edit View Insert Cell Kernel Help
Trusted | Python 3.7
Run
Format Markdown
In [50]:
tables = soup.find_all('table')
for index,table in enumerate(tables):
if ("GameStop Quarterly Revenue" in str(table)):
table_index = index
gme_revenue = pd.DataFrame(columns=["Date", "Revenue"])
for row in tables[gme_table_index].tbody.find_all("tr"):
col = row.find_all("td")
if (col !=[]):
date = col[0].text
revenue = col[1].text.replace("$", "").replace(",", "")
gme_revenue = gme_revenue.append({"Date" : date, "Revenue" : revenue}, ignore_index=True)
Display the last five rows of the gme_revenue dataframe using the tail function. Take a screenshot of the results.
In [43]:
gme_revenue.tail()
Out[43]:
Date Revenue
62 2006-01-31 1667
63 2005-10-31 534
64 2005-07-31 416
65 2005-04-30 475
66 2005-01-31 709
Type here to search
24°C Haze
ENG
02:42
01-10-2021

Coursera | Online Courses & Cre... | Analyzing Historical Stock/Reven... | Final Assignment - IBM Watson S...

jp-tok.dataplatform.cloud.ibm.com/analytics/notebooks/v2/d4c8f982-edc3-41d5-a218-26cdfc0e5795?projectid=f3925a51-601c-4dd4-a551-624c6f558a2a&context=cpdaas

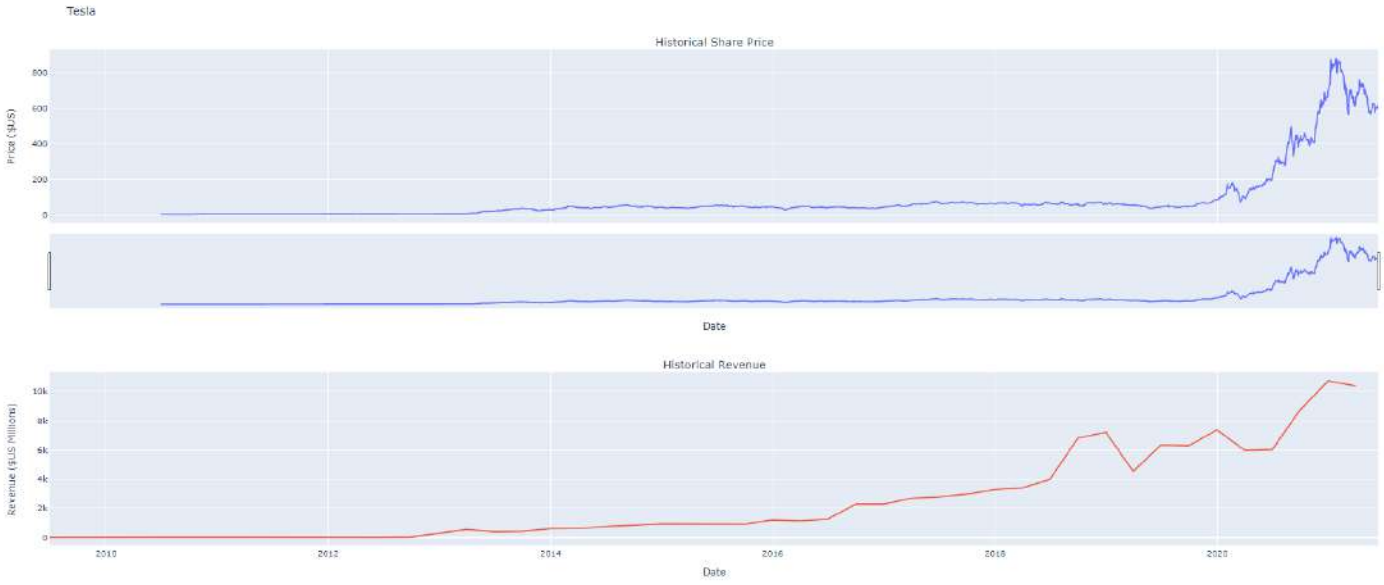
IBM Watson Studio | All | Search | Upgrade | Aditya Kingrani's Account

Projects / Python Basics for data science pr... / Final Assignment

File Edit View Insert Cell Kernel Help | Trusted | Python 3.7

Run | Format Markdown

In [48]:
```
make_graph(tesla_data, tesla_revenue, 'Tesla')
```



Type here to search | 24°C Haze | ENG | 02:44 | 01-10-2021

Coursera | Online Courses & Cre... | Analyzing Historical Stock/Reven... | Final Assignment - IBM Watson S...

jp-tok.dataplatform.cloud.ibm.com/analytics/notebooks/v2/d4c8f982-edc3-41d5-a218-26cdfc0e5795?projectid=f3925a51-601c-4dd4-a551-624c6f558a2a&context=cpdaas

IBM Watson Studio | Upgrade | Aditya Kingrani's Account

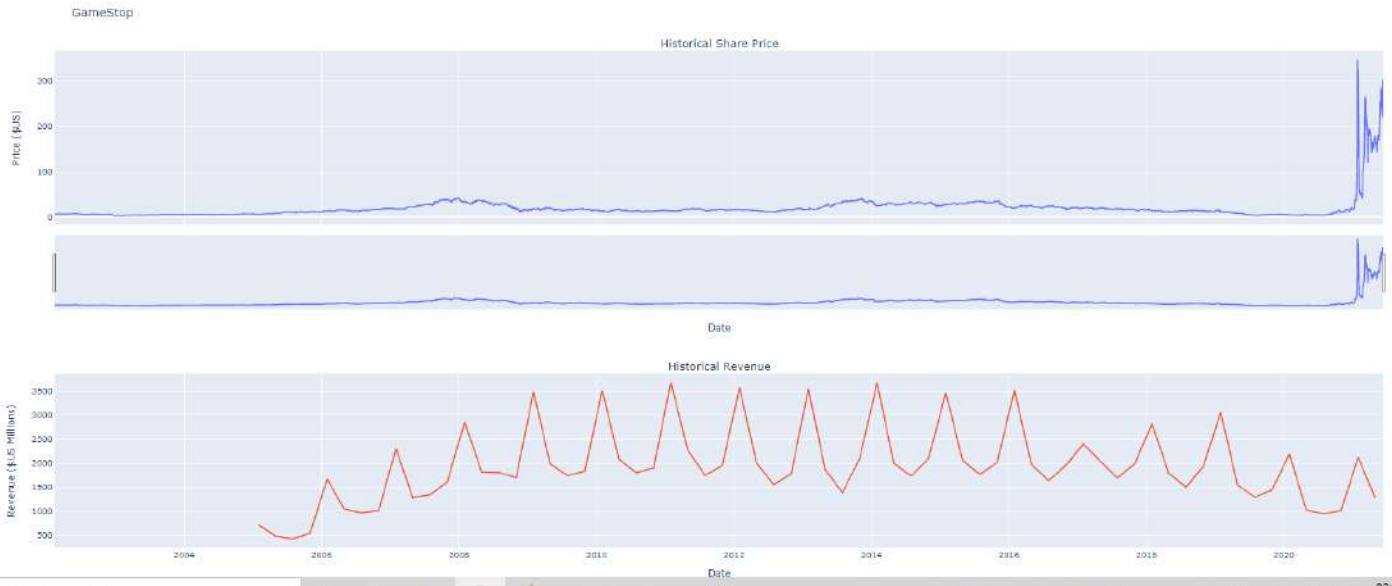
Projects / Python Basics for data science pr... / Final Assignment

File Edit View Insert Cell Kernel Help | Trusted | Python 3.7

Run | Format Markdown

Use the `make_graph` function to graph the GameStop Stock Data, also provide a title for the graph. The structure to call the `make_graph` function is `make_graph(gme_data, gme_revenue, 'GameStop')`. Note the graph will only show data upto June 2021.

In [45]:
```
make_graph(gme_data, gme_revenue, 'GameStop')
```



Type here to search | 24°C Haze | ENG | 02:44 | 01-10-2021