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

[7]: tesla = yf.Ticker("TSLA")

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

[8]: 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.

[9]: tesla_data.reset_index(inplace=True)
 tesla_data.head()

 Date
 Open
 High
 Low
 Close
 Volume
 Dividends
 Sock Splits

 0
 2010-06-29 00:00:00-04:00
 1.266667
 1.666667
 1.169333
 1.592667
 28149450
 0.0
 0.0

 1
 2010-06-30 00:00:00-04:00
 1.71933
 2.02800
 1.553333
 1.588667
 257806500
 0.0
 0.0

 2
 2010-07-01 00:00:00:00-04:00
 1.666667
 1.72800
 1.231333
 1.464000
 23282000
 0.0
 0.0

 3
 2010-07-02 00:00:00:00-04:00
 1.533333
 1.54000
 1.247333
 1.28000
 77097000
 0.0
 0.0

 4
 2010-07-06 00:00:00:00-04:00
 1.333333
 1.353333
 1.055333
 1.074000
 103003500
 0.0
 0.0

Question 2: Use Webscraping to Extract Tesla Revenue Data

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.

```
[43]: gme = yf.Ticker("GME")
```

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

```
[44]: gme_data = gme.history(period="max")
```

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

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

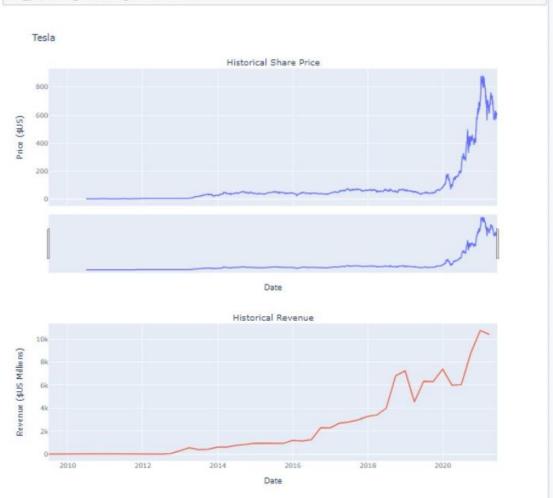
]:		Date	Open	High	Low	Close	Volume	Dividends	Stock Splits
	0	2002-02-13 00:00:00-05:00	1.620128	1.693350	1.603296	1.691667	76216000	0.0	0.0
	1	2002-02-14 00:00:00-05:00	1.712707	1.716074	1.670626	1.683250	11021600	0.0	0.0
	2	2002-02-15 00:00:00-05:00	1.683251	1.687459	1.658002	1.674834	8389600	0.0	0.0
	3	2002-02-19 00:00:00-05:00	1.666418	1.666418	1.578047	1.607504	7410400	0.0	0.0
	4	2002-02-20 00:00:00-05:00	1.615920	1.662209	1.603295	1.662209	6892800	0.0	0.0

Question 4: Use Webscraping to Extract GME Revenue Data

Question 5: Plot Tesla Stock Graph

Use the <code>make_graph</code> function to graph the Tesla Stock Data, also provide a title for the graph. The structure to call the <code>make_graph</code> function is <code>make_graph(tesla_data, tesla_revenue, 'Tesla')</code>. Note the graph will only show data upto June 2021.

In [23]: make_graph(tesla_data, tesla_revenue, 'Tesla')



Question 6: Plot Game Stop Stock Graph

Use the <code>make_graph</code> function to graph the GameStop Stock Data, also provide a title for the graph. The structure to call the <code>make_graph</code> function is <code>make_graph(gne_data, gne_revenue, 'GameStop')</code>. Note the graph will only show data upto June 2021.

In [24]: make_graph(gme_data, gme_revenue, 'GameStop')

GameStop Historical Share Price 200 Date Historical Revenue 3500 3000 2500 2000 1500 500 2004 2006 2008 2010 2012 2014 2016 2018 2010 2010 2011 2014 2016 2018 2010

Date