```
In [29]: !pip install yfinance
          !pip install plotly
         !pip install bs4
         !pip install requests
         !pip install pandas
         Requirement already satisfied: yfinance in c:\users\at\anaconda3\lib\site-packages (0.2.31)
         Requirement already satisfied: requests>=2.31 in c:\users\at\anaconda3\lib\site-packages (from yfinance) (2.31.0)
         Requirement already satisfied: appdirs>=1.4.4 in c:\users\at\anaconda3\lib\site-packages (from yfinance) (1.4.4)
         Requirement already satisfied: pandas>=1.3.0 in c:\users\at\anaconda3\lib\site-packages (from yfinance) (1.4.2)
         Requirement already satisfied: html5lib>=1.1 in c:\users\at\anaconda3\lib\site-packages (from yfinance) (1.1)
         Requirement already satisfied: lxml>=4.9.1 in c:\users\at\anaconda3\lib\site-packages (from yfinance) (4.9.3)
         Requirement already satisfied: peewee>=3.16.2 in c:\users\at\anaconda3\lib\site-packages (from yfinance) (3.16.3)
         Requirement already satisfied: pytz>=2022.5 in c:\users\at\anaconda3\lib\site-packages (from yfinance) (2023.3.post1)
         Requirement already satisfied: numpy>=1.16.5 in c:\users\at\anaconda3\lib\site-packages (from yfinance) (1.21.5)
         Requirement already satisfied: beautifulsoup4>=4.11.1 in c:\users\at\anaconda3\lib\site-packages (from yfinance) (4.11.1)
         Requirement already satisfied: frozendict>=2.3.4 in c:\users\at\anaconda3\lib\site-packages (from yfinance) (2.3.8)
         Requirement already satisfied: multitasking>=0.0.7 in c:\users\at\anaconda3\lib\site-packages (from yfinance) (0.0.11)
         Requirement already satisfied: soupsieve>1.2 in c:\users\at\anaconda3\lib\site-packages (from beautifulsoup4>=4.11.1->yfinance) (2.3.1)
         Requirement already satisfied: webencodings in c:\users\at\anaconda3\lib\site-packages (from html5lib>=1.1->yfinance) (0.5.1)
         Requirement already satisfied: six>=1.9 in c:\users\at\anaconda3\lib\site-packages (from html5lib>=1.1->yfinance) (1.16.0)
         Requirement already satisfied: python-dateutil>=2.8.1 in c:\users\at\anaconda3\lib\site-packages (from pandas>=1.3.0->yfinance) (2.8.2)
         Requirement already satisfied: certifi>=2017.4.17 in c:\users\at\anaconda3\lib\site-packages (from requests>=2.31->yfinance) (2021.10.8)
         Requirement already satisfied: urllib3<3,>=1.21.1 in c:\users\at\anaconda3\lib\site-packages (from requests>=2.31->yfinance) (1.26.9)
         Requirement already satisfied: charset-normalizer<4,>=2 in c:\users\at\anaconda3\lib\site-packages (from requests>=2.31->yfinance) (2.0.4)
         Requirement already satisfied: idna<4,>=2.5 in c:\users\at\anaconda3\lib\site-packages (from requests>=2.31->yfinance) (3.3)
         Requirement already satisfied: plotly in c:\users\at\anaconda3\lib\site-packages (5.6.0)
         Requirement already satisfied: tenacity>=6.2.0 in c:\users\at\anaconda3\lib\site-packages (from plotly) (8.0.1)
         Requirement already satisfied: six in c:\users\at\anaconda3\lib\site-packages (from plotly) (1.16.0)
         Requirement already satisfied: bs4 in c:\users\at\anaconda3\lib\site-packages (0.0.1)
         Requirement already satisfied: beautifulsoup4 in c:\users\at\anaconda3\lib\site-packages (from bs4) (4.11.1)
         Requirement already satisfied: soupsieve>1.2 in c:\users\at\anaconda3\lib\site-packages (from beautifulsoup4->bs4) (2.3.1)
         Requirement already satisfied: requests in c:\users\at\anaconda3\lib\site-packages (2.31.0)
         Requirement already satisfied: idna<4,>=2.5 in c:\users\at\anaconda3\lib\site-packages (from requests) (3.3)
         Requirement already satisfied: charset-normalizer<4,>=2 in c:\users\at\anaconda3\lib\site-packages (from requests) (2.0.4)
         Requirement already satisfied: urllib3<3,>=1.21.1 in c:\users\at\anaconda3\lib\site-packages (from requests) (1.26.9)
         Requirement already satisfied: certifi>=2017.4.17 in c:\users\at\anaconda3\lib\site-packages (from requests) (2021.10.8)
         Requirement already satisfied: pandas in c:\users\at\anaconda3\lib\site-packages (1.4.2)
         Requirement already satisfied: python-dateutil>=2.8.1 in c:\users\at\anaconda3\lib\site-packages (from pandas) (2.8.2)
         Requirement already satisfied: pytz>=2020.1 in c:\users\at\anaconda3\lib\site-packages (from pandas) (2023.3.post1)
         Requirement already satisfied: numpy>=1.18.5 in c:\users\at\anaconda3\lib\site-packages (from pandas) (1.21.5)
         Requirement already satisfied: six>=1.5 in c:\users\at\anaconda3\lib\site-packages (from python-dateutil>=2.8.1->pandas) (1.16.0)
In [3]: import yfinance as yf
         import pandas as pd
         import requests
         from bs4 import BeautifulSoup
         import plotly.graph_objects as go
         from plotly.subplots import make_subplots
```

Question 1

```
tesla = yf.Ticker('TSLA')
       tesla_data = tesla.history(period="max")
In [6]: tesla_data.reset_index(inplace=True)
        tesla_data.head()
Out[6]:
                                       High
                                                     Close
                                                            Volume Dividends Stock Splits
                        Date
                               Open
                                              Low
       0 2010-06-29 00:00:00-04:00 1.266667 1.666667 1.169333 1.592667
                                                          281494500
                                                                                 0.0
       1 2010-06-30 00:00:00-04:00 1.719333 2.028000 1.553333 1.588667 257806500
                                                                       0.0
                                                                                 0.0
       0.0
```

0.0

77097000

0.0

Question 2

3 2010-07-02 00:00:00-04:00 1.533333 1.540000 1.247333 1.280000

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

```
url = 'https://www.macrotrends.net/stocks/charts/TSLA/tesla/revenue'
         html_data = requests.get(url).text
         soup = BeautifulSoup(html_data, "html5lib")
In [41]: | tesla_revenue = pd.DataFrame(columns=['Date', 'Revenue'])
         for table in soup.find_all('table'):
             if ('Tesla Quarterly Revenue' in table.find('th').text):
                 rows = table.find_all('tr')
                 for row in rows:
                     col = row.find_all('td')
                     if col != []:
                         date = col[0].text
                         revenue = col[1].text.replace(',','').replace('$','')
                          tesla_revenue = tesla_revenue.append({"Date":date, "Revenue":revenue}, ignore_index=True)
         tesla_revenue
          Date Revenue
Out[41]:
In [42]: tesla_revenue = tesla_revenue[tesla_revenue['Revenue'].astype(bool)]
         tesla_revenue.tail()
Out[42]:
          Date Revenue
```

Question 3

			- P	9					o to ott o pitto
	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	1.716073	1.670626	1.683250	11021600	0.0	0.0
	2	2002-02-15 00:00:00-05:00	1.683250	1.687458	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	1.662210	1.603296	1.662210	6892800	0.0	0.0

Question 4

Question 5

Date Revenue

Out[25]:

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

Question 6

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