Question 1 - Extracting Tesla Stock Data Using yfinance - 2 Points

```python
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
```

```python
tesla=yf.Ticker('TSLA');tesla_data=tesla.history(period="max")
```

```python
tesla_data.reset_index(inplace=True)
tesla_data.head()
```

	Date	Open	High	Low	Close	Volume	Dividends	Stock Splits
0	2010-06-29 00:00:00-04:00	1.266667	1.666667	1.169333	1.592667	281494500	0.0	0.0
1	2010-06-30 00:00:00-04:00	1.719333	2.028000	1.553333	1.588667	257806500	0.0	0.0
2	2010-07-01 00:00:00-04:00	1.666667	1.728000	1.351333	1.464000	123282000	0.0	0.0
3	2010-07-02 00:00:00-04:00	1.533333	1.540000	1.247333	1.280000	77097000	0.0	0.0
4	2010-07-06 00:00:00-04:00	1.333333	1.333333	1.055333	1.074000	103003500	0.0	0.0

Display the last five rows of the tesla_revenue dataframe using the tail function. Upload a screenshot of the results.

```
[10]: url=" https://www.macrotrends.net/stocks/charts/TSLA/tesla/revenue."
      html_data=requests.get(url).text
      beautiful_soup=BeautifulSoup(html_data,"html5lib")
      tables=beautiful_soup.find_all("table")
      for index,table in enumerate(tables):
          if("Tesla Quarterly Revenue" in str(table)):
              table_index=index
      tesla_revenue=pd.DataFrame(columns=["Date","Revenue"])

      for row in tables[table_index].tbody.find_all('tr'):
          col=row.find_all("td")
          if(col!=[]):
              date=col[0].text
              revenue=col[1].text.strip().replace("$","").replace(",","")
              tesla_revenue=tesla_revenue.append({"Date":date,"Revenue":revenue},ignore_index=True)
      tesla_revenue.head()
      tesla_revenue.tail()
```

[10]:

	Date	Revenue
50	2010-06-30	28
51	2010-03-31	21
52	2009-12-31	
53	2009-09-30	46
54	2009-06-30	27

Question 3: Use yfinance to Extract Stock Data

```
[11]: gmestop=yf.Ticker("GME")
      gme_data=gmestop.history(period="max")
      gme_data.reset_index(inplace=True)
      gme_data.head()
```

[11]:

	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	1.683250	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

[ ]:

Use Webscraping to Extract GME Revenue Data

```
[13]: url="https://www.macrotrends.net/stocks/charts/GME/gamestop/revenue."
      html_data=requests.get(url).text
      beautiful_soup=BeautifulSoup(html_data,"html.parser")
      tables=beautiful_soup.find_all("table")
      for index,table in enumerate(tables):
          if(str(table)=="GameStop Quarterly Revenue"):
              table_index=index

      gme_revenue=pd.DataFrame(columns=["Date","Revenue"])

      for row in tables[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)
      gme_revenue.tail()
```

[13]:

	Date	Revenue
51	2010-01-31	3524
52	2009-10-31	1835
53	2009-07-31	1739
54	2009-04-30	1981
55	2009-01-31	3492

```
20]: make_graph(gme_data, gme_revenue, 'GameStop')
```


GameStop

Historical Share Price