Question 4: Use Webscraping to Extract GME Revenue Data

Use the requests library to download the webpage https://cf-courses-data.s3.us.cloud-object-storage.appdomain.cloud/IBMDeveloperSkillsNetwork-PY0220EN-SkillsNetwork/labs/project/stock.html. Save the text of the response as a variable named html_data_2.

```
]: url1="https://cf-courses-data.s3.us.cloud-object-storage.appdomain.cloud/IBMDeveloperSkillsNetwork-PY0220EN-SkillsNetwork/labs/project/stock.html" html_data_2 = requests.get(url1).text print(html_data_2)

<!DOCTYPE html> • • •
```

Parse the html data using beautiful soup using parser i.e html5lib or html.parser.

```
soup1 = BeautifulSoup(html_data_2, "html5lib")
```

Using BeautifulSoup or the read_html function extract the table with GameStop Revenue and store it into a dataframe named gme_revenue. The dataframe should have columns Date and Revenue. Make sure the comma and dollar sign is removed from the Revenue column.

Note: Use the method similar to what you did in question 2.

▶ Click here if you need help locating the table

```
# Step 2: Locate the correct table (Quarterly Revenue)
tables = soup1.find_all("table")  # Find all tables
gme_revenue_table = tables[1]  # The second table contains revenue data

# Step 3: Create an empty DataFrame
gme_revenue = pd.DataFrame(columns=["Date", "Revenue"])
```

```
# Step 4: Extract rows from the table body
table rows = gme revenue table.find("tbody").find all("tr")
# Step 5: Loop through rows and extract Date and Revenue
for row in table rows:
    cols = row.find all("td") # Find all columns in the row
    if len(cols) == 2: # Ensure it has both Date and Revenue columns
        date = cols[0].text.strip()
        revenue = cols[1].text.strip()
        # Append to DataFrame
        gme revenue = pd.concat([gme revenue, pd.DataFrame({"Date": [date], "Revenue": [revenue]})], ignore index=True)
# Step 6: Print the first few rows
print(gme revenue.head())
         Date Revenue
0 2020-04-30 $1,021
1 2020-01-31 $2,194
2 2019-10-31 $1,439
3 2019-07-31 $1,286
4 2019-04-30 $1,548
Execute the following line to remove the comma and dollar sign from the Revenue column.
```

```
[52]: gme_revenue["Revenue"] = gme_revenue['Revenue'].str.replace(', \\$', "", regex=True)

[53]: gme_revenue.dropna(inplace=True)

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

Display the last five rows of the gme_revenue dataframe using the tail function. Take a screenshot of the results.

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

Display the last five rows of the <code>gme_revenue</code> dataframe using the <code>tail</code> function. Take a screenshot of the results.

[54]: gme_revenue.tail()

[54]:		Date	Revenue
	57	2006-01-31	1667
	58	2005-10-31	534
	59	2005-07-31	416
	60	2005-04-30	475

61 2005-01-31

709