Question 2: Use Webscraping to Extract Tesla 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/revenue.htm Save the text of the response as a variable named `html_data`.

[7]:
```
html_data = requests.get("https://cf-courses-data.s3.us.cloud-object-storage.appdomain.cloud/IBMDeveloperSkillsNetwork-PY0220EN-SkillsNetwork/labs/
```

Parse the html data using `beautiful_soup`.

[8]:
```
soup = soup=BeautifulSoup(html_data, 'html5lib')
```

Using `BeautifulSoup` or the `read_html` function extract the table with `Tesla Revenue` and store it into a dataframe named `tesla_revenue`. The dataframe should have columns `Date` and `Revenue`.

▶ Click here if you need help locating the table

[9]:
```
tesla_revenue = pd.DataFrame(columns=["Date", "Revenue"])
tables = soup.find_all('table')
table_index=0
for index, table in enumerate(tables):
    if ('Tesla Quarterly Revenue'in str(table)):
        table_index=index
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(",", "")
        tesla_revenue=tesla_revenue.append({'Date':date,'Revenue':revenue},ignore_index=True)
tesla_revenue.head()
```

[9]:

	Date	Revenue
0	2022-09-30	21454
1	2022-06-30	16934
2	2022-03-31	18756
3	2021-12-31	17719
4	2021-09-30	13757

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

[11]:
```
tesla_revenue["Revenue"] = tesla_revenue['Revenue'].str.replace(',|\$',"")
```

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

[12]:
```
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.

[13]:
```
tesla_revenue.tail(5)
```

[13]:

	Date	Revenue
48	2010-09-30	31
49	2010-06-30	28
50	2010-03-31	21
52	2009-09-30	46
53	2009-06-30	27