

### Question 2: Use Webscraping to Extract Tesla Revenue Data

Use the `requests` library to download the webpage <https://www.macrotrends.net/stocks/charts/TSLA/tesla/revenue>. Save the text of the response as a variable named `html_data`.

```
In [8]: url=" https://www.macrotrends.net/stocks/charts/TSLA/tesla/revenue "
        html_data=requests.get(url).text
```

Parse the html data using `beautiful_soup`.

```
In [9]: soup=BeautifulSoup(html_data, "html.parser")
        soup.find_all('title')
```

```
Out[9]: [<title>Tesla Revenue 2010-2021 | TSLA | MacroTrends</title>]
```

Using BeautifulSoup or the read\_html function extract the table with Tesla Quarterly 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](#)

```
In [10]: tesla_revenue = pd.DataFrame(columns = ['Date', 'Revenue'])

for row in soup.find_all("tbody")[1].find_all("tr"):
    col = row.find_all("td")
    date = col[0].text
    revenue = col[1].text.replace("$", "").replace(", ", "")
    tesla_revenue = tesla_revenue.append({"Date": date, "Revenue": revenue}, ignore_index = True)
```

```
In [11]: tesla_revenue.dropna(inplace=True)
tesla_revenue = tesla_revenue[tesla_revenue['Revenue'] != ""]
```

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```
In [9]: soup=BeautifulSoup(html_data, "html.parser")
        soup.find_all('title')
```

```
Out[9]: [<title>Tesla Revenue 2010-2021 | TSLA | MacroTrends</title>]
```

Using `BeautifulSoup` or the `read_html` function extract the table with `Tesla Quarterly 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](#)

```
In [10]: tesla_revenue = pd.DataFrame(columns = ['Date', 'Revenue'])

for row in soup.find_all("tbody")[1].find_all("tr"):
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    tesla_revenue = tesla_revenue.append({"Date": date, "Revenue": revenue}, ignore_index = True)
```

```
In [11]: tesla_revenue.dropna(inplace=True)
tesla_revenue = tesla_revenue[tesla_revenue['Revenue'] != ""]
```

```
In [12]: tesla_revenue.tail()
```

```
Out[12]:
```

	Date	Revenue
45	2010-09-30	31
46	2010-06-30	28
47	2010-03-31	21
49	2009-09-30	46
50	2009-06-30	27