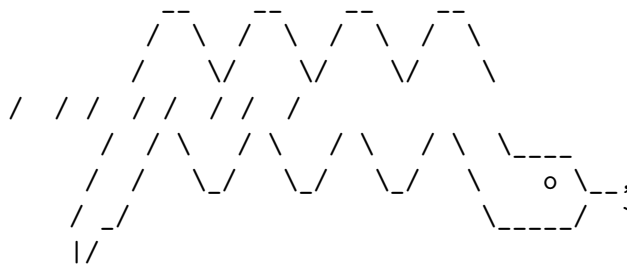


Question 2

March 4, 2023

```
[25]: #!pip install pandas==1.3.3  
#!pip install requests==2.26.0  
!mamba install bs4==4.10.0 -y  
!mamba install html5lib==1.1 -y  
!pip install lxml==4.6.4  
#!pip install plotly==5.3.1
```



mamba (0.15.3) supported by @QuantStack

GitHub: <https://github.com/mamba-org/mamba>

Twitter: <https://twitter.com/QuantStack>

Looking for: ['bs4==4.10.0']

pkgs/main/linux-64	Using cache
pkgs/main/noarch	Using cache
pkgs/r/linux-64	Using cache
pkgs/r/noarch	Using cache

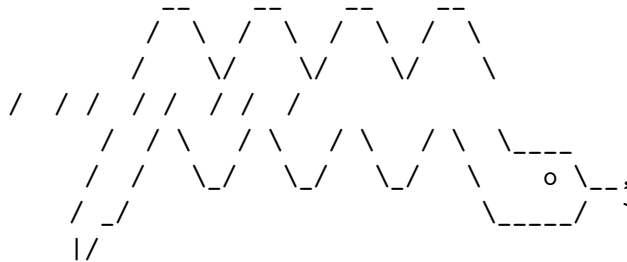
Pinned packages:

- python 3.7.*

Transaction

Prefix: /home/jupyterlab/conda/envs/python

All requested packages already installed



mamba (0.15.3) supported by @QuantStack

GitHub: <https://github.com/mamba-org/mamba>

Twitter: <https://twitter.com/QuantStack>

Looking for: ['html5lib==1.1']

pkgs/main/noarch	[>] (--:--)	No change
pkgs/main/noarch	[=====]	(00m:00s)	No change
pkgs/r/linux-64	[>] (--:--)	No change
pkgs/r/linux-64	[=====]	(00m:00s)	No change
pkgs/r/noarch	[>] (--:--)	No change
pkgs/r/noarch	[=====]	(00m:00s)	No change
pkgs/main/linux-64	[>] (--:--)	No change
pkgs/main/linux-64	[=====]	(00m:00s)	No change

Pinned packages:

- python 3.7.*

Transaction

Prefix: /home/jupyterlab/conda/envs/python

All requested packages already installed

Requirement already satisfied: lxml==4.6.4 in
/home/jupyterlab/conda/envs/python/lib/python3.7/site-packages (4.6.4)

```
[20]: import pandas as pd
import requests
from bs4 import BeautifulSoup

[19]: url = "https://cf-courses-data.s3.us.cloud-object-storage.appdomain.cloud/
↳IBMDeveloperSkillsNetwork-PY0220EN-SkillsNetwork/labs/project/
↳tesla_data_webpage.html"

data = requests.get(url).text

[ ]: soup = BeautifulSoup(data, 'html5lib')

[28]: tesla_data = pd.DataFrame(columns=["Date", "Open", "High", "Low", "Close",
↳"Volume"])

[ ]: for row in soup.find("tbody").find_all('tr'):
    col = row.find_all("td")
    date = col[0].text
    Open = col[1].text
    high = col[2].text
    low = col[3].text
    close = col[4].text
    adj_close = col[5].text
    volume = col[6].text

[ ]: tesla_data = tesla_data.append({"Date":date, "Open":Open, "High":high, "Low":
↳low, "Close":close, "Adj Close":adj_close, "Volume":volume},
↳ignore_index=True)
tesla_data.head()

[ ]: read_html_pandas_data = pd.read_html(url)
read_html_pandas_data = pd.read_html(str(soup))
tesla_dataframe = read_html_pandas_data[0]
tesla_dataframe.head()

[ ]:
```