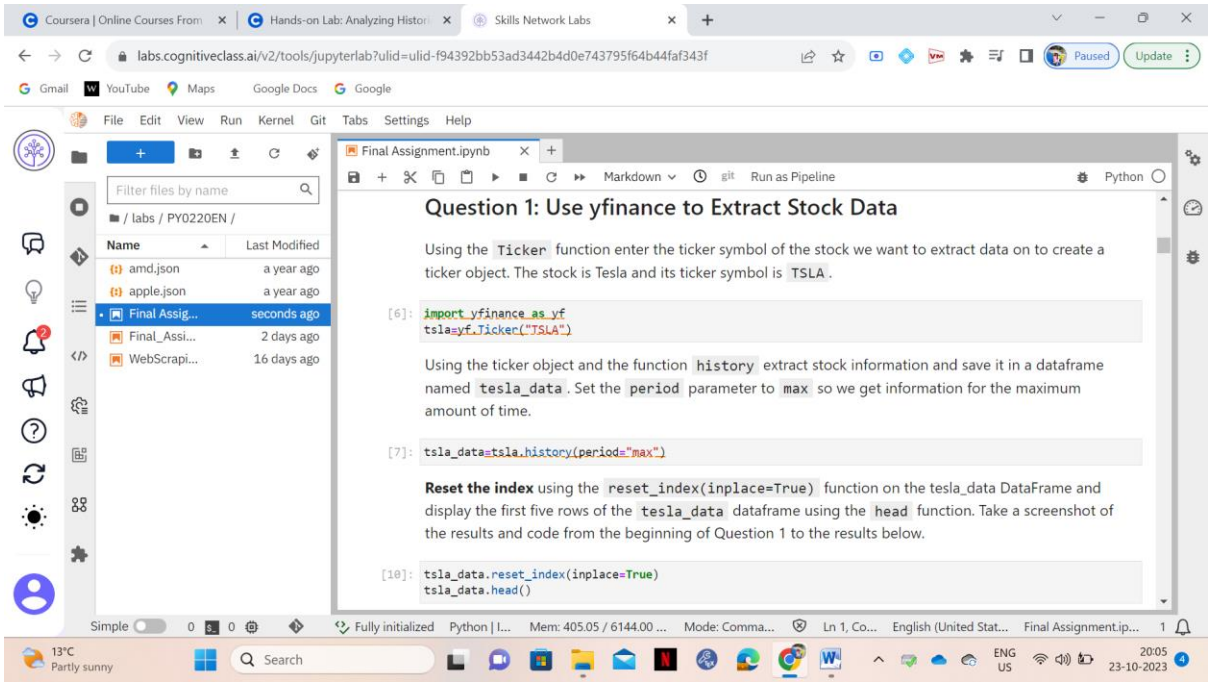
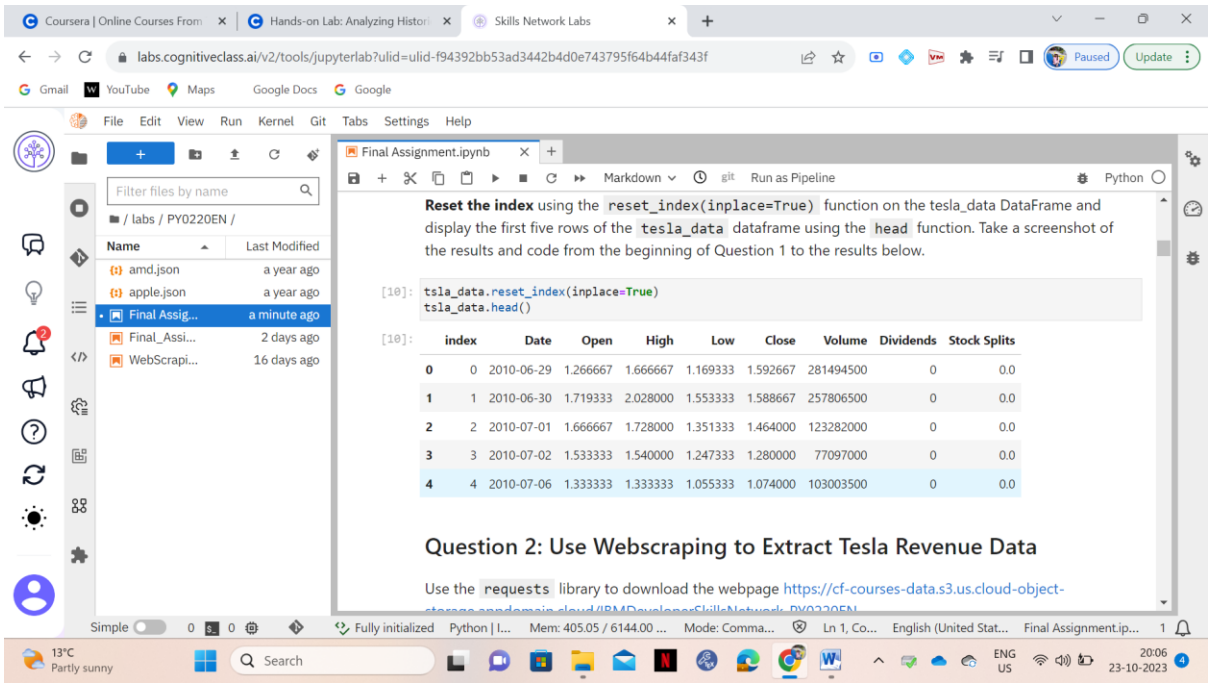
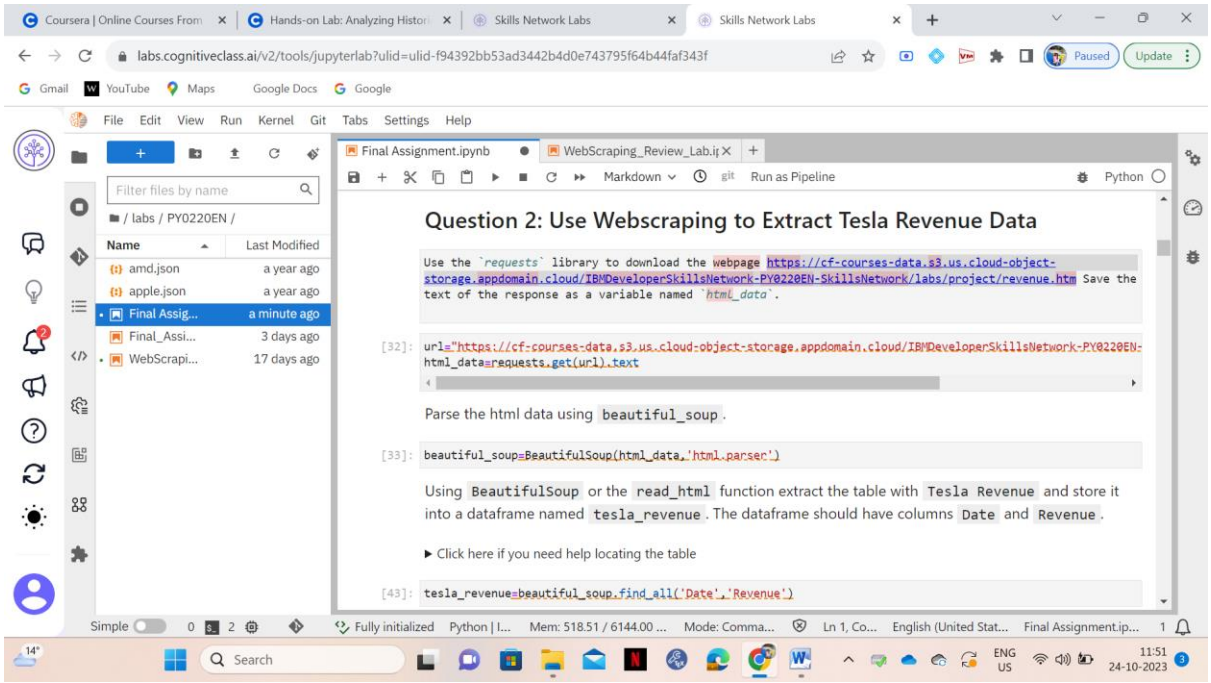
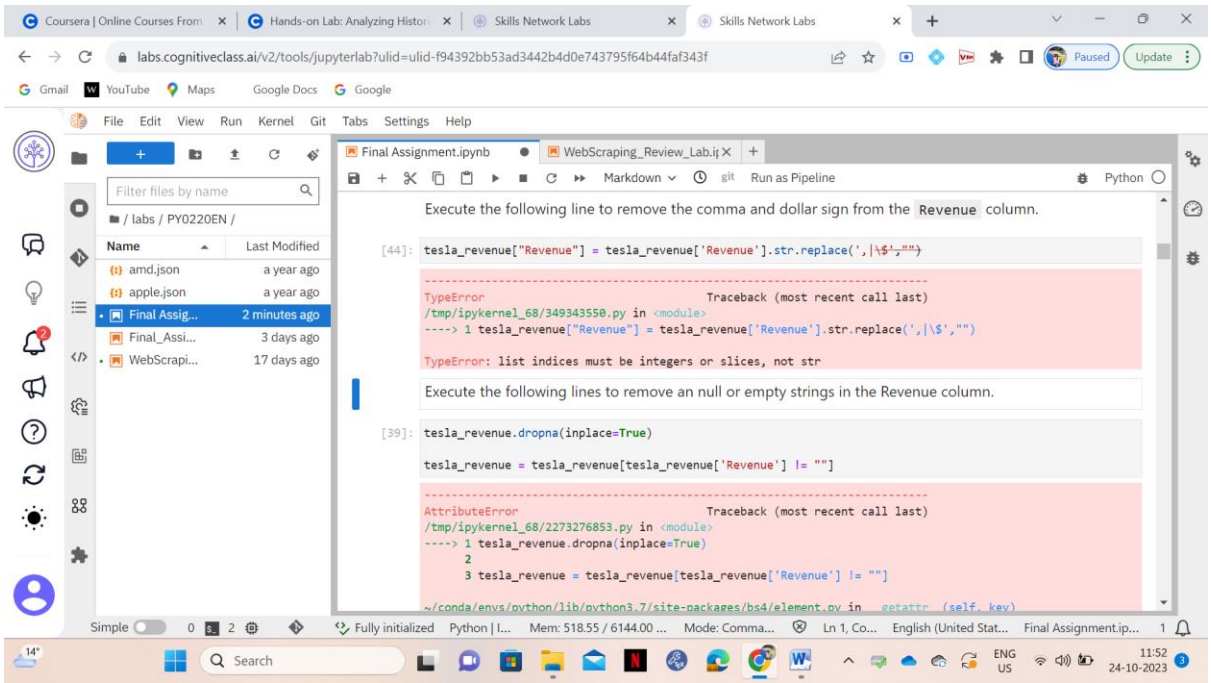
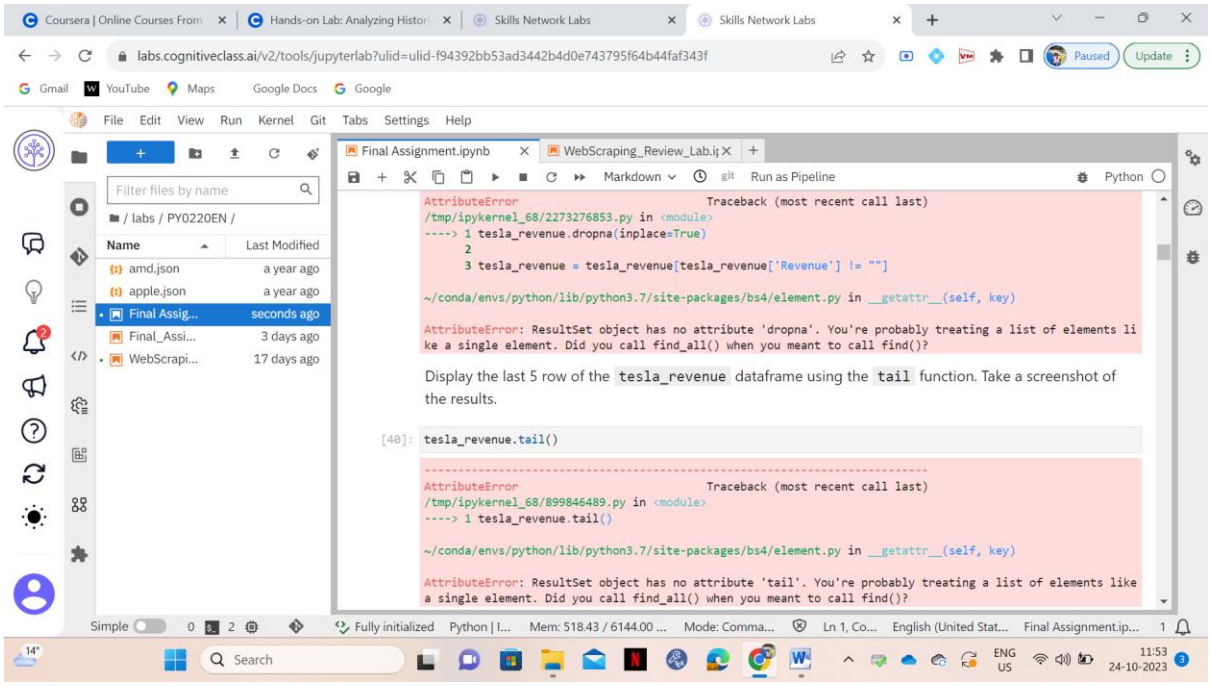
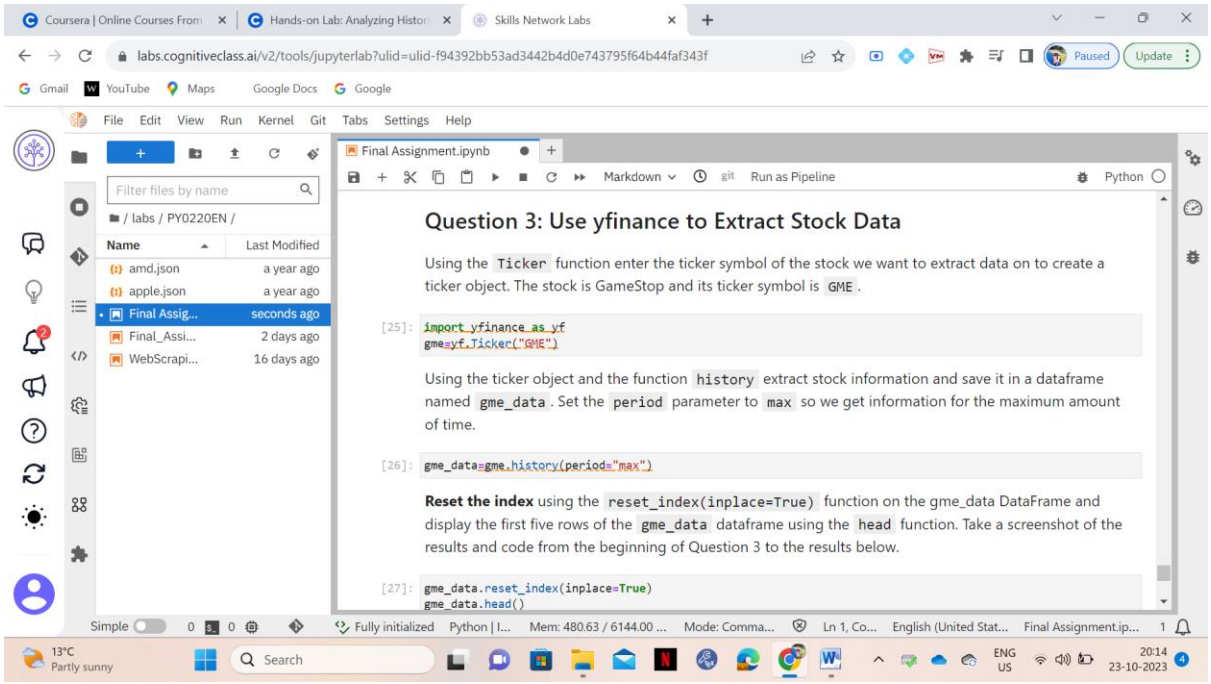

Coursera | Online Courses From
Hands-on Lab: Analyzing Histori
Skills Network Labs
labs.cognitiveclass.ai/v2/tools/jupyterlab?ulid=ulid-f94392bb53ad3442b4d0e743795f64b44faf343f
Paused
Update
Gmail
YouTube
Maps
Google Docs
Google
File Edit View Run Kernel Git Tabs Settings Help
Final Assignment.ipynb
Markdown
Run as Pipeline
Python
Filter files by name
/ labs / PY0220EN /
Name
Last Modified
amd.json a year ago
apple.json a year ago
Final Assig... seconds ago
Final_Assi... 2 days ago
WebScrapi... 16 days ago
Question 1: Use yfinance to Extract Stock Data
Using the Ticker function enter the ticker symbol of the stock we want to extract data on to create a ticker object. The stock is Tesla and its ticker symbol is TSLA .
[6]:
import yfinance as yf
tsla=yf.Ticker("TSLA")
Using the ticker object and the function history extract stock information and save it in a dataframe named tesla_data . Set the period parameter to max so we get information for the maximum amount of time.
[7]:
tsla_data=tsla.history(period="max")
Reset the index using the reset_index(inplace=True) function on the tesla_data DataFrame and display the first five rows of the tesla_data dataframe using the head function. Take a screenshot of the results and code from the beginning of Question 1 to the results below.
[10]:
tsla_data.reset_index(inplace=True)
tsla_data.head()
Simple
Fully initialized
Python | I...
Mem: 405.05 / 6144.00 ...
Mode: Comma...
Ln 1, Co...
English (United Stat...
Final Assignment.ip...
13°C
Partly sunny
Search
ENG
US
20:05
23-10-2023

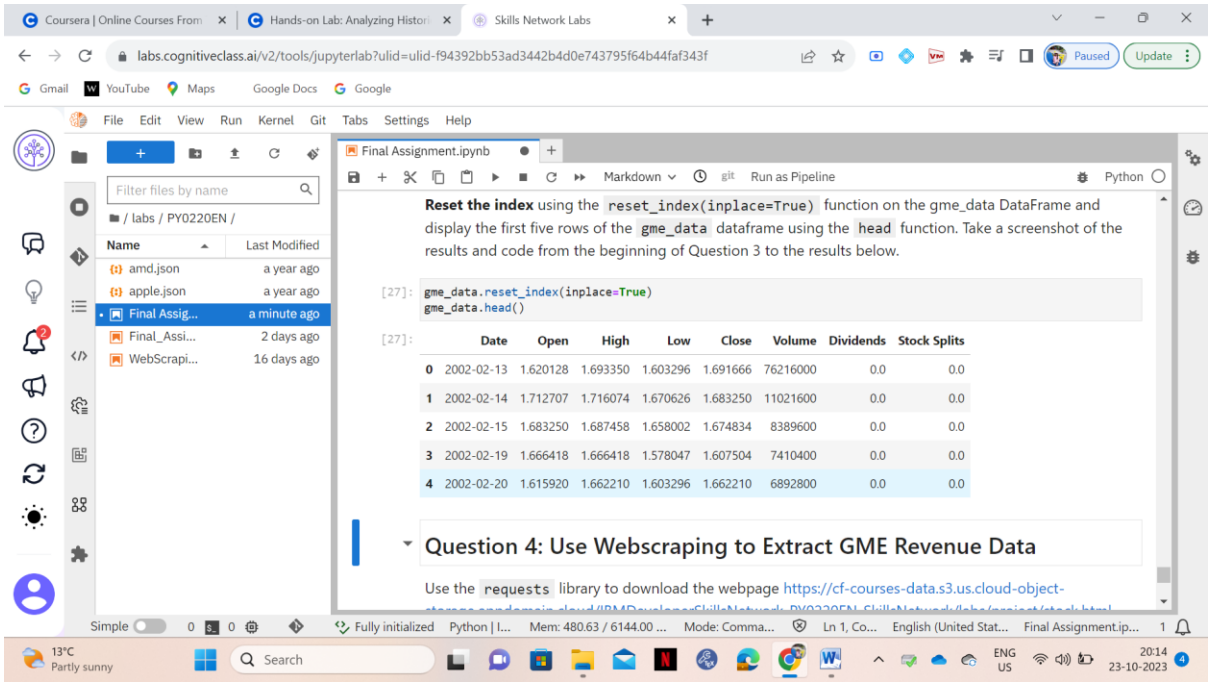

Coursera | Online Courses From
Hands-on Lab: Analyzing Histori
Skills Network Labs
labs.cognitiveclass.ai/v2/tools/jupyterlab?ulid=ulid-f94392bb53ad3442b4d0e743795f64b44faf343f
Paused
Update
Gmail
YouTube
Maps
Google Docs
Google
File Edit View Run Kernel Git Tabs Settings Help
Final Assignment.ipynb
Markdown
Run as Pipeline
Python
Filter files by name
/ labs / PY0220EN /
Name
Last Modified
amd.json a year ago
apple.json a year ago
Final Assig... a minute ago
Final_Assi... 2 days ago
WebScrapi... 16 days ago
Reset the index using the reset_index(inplace=True) function on the tesla_data DataFrame and display the first five rows of the tesla_data dataframe using the head function. Take a screenshot of the results and code from the beginning of Question 1 to the results below.
[10]:
tsla_data.reset_index(inplace=True)
tsla_data.head()
[10]:
index Date Open High Low Close Volume Dividends Stock Splits
0 0 2010-06-29 1.266667 1.666667 1.169333 1.592667 281494500 0 0.0
1 1 2010-06-30 1.719333 2.028000 1.553333 1.588667 257806500 0 0.0
2 2 2010-07-01 1.666667 1.728000 1.351333 1.464000 123282000 0 0.0
3 3 2010-07-02 1.533333 1.540000 1.247333 1.280000 77097000 0 0.0
4 4 2010-07-06 1.333333 1.333333 1.055333 1.074000 103003500 0 0.0
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-
Simple
Fully initialized
Python | I...
Mem: 405.05 / 6144.00 ...
Mode: Comma...
Ln 1, Co...
English (United Stat...
Final Assignment.ip...
13°C
Partly sunny
Search
ENG
US
20:06
23-10-2023

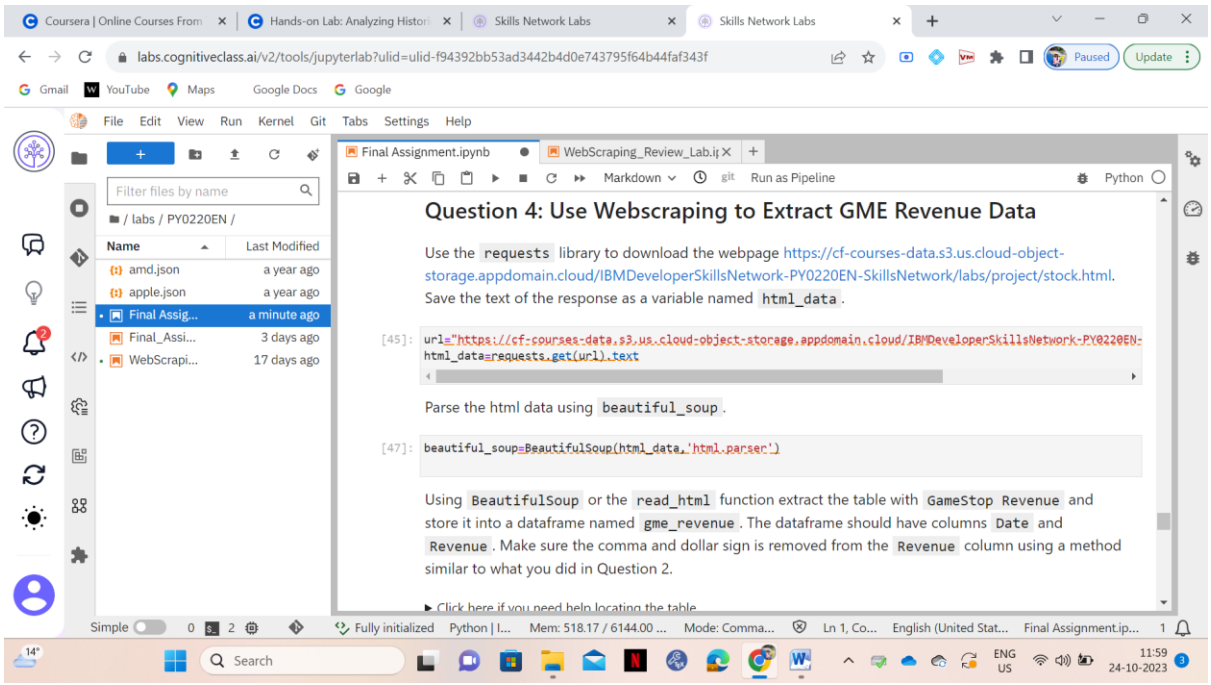

Coursera | Online Courses From
Hands-on Lab: Analyzing Histori
Skills Network Labs
Skills Network Labs
labs.cognitiveclass.ai/v2/tools/jupyterlab?ulid=ulid-f94392bb53ad3442b4d0e743795f64b44faf343f
Paused
Update
Gmail
YouTube
Maps
Google Docs
Google
File Edit View Run Kernel Git Tabs Settings Help
Final Assignment.ipynb
WebScraping_Review_Lab.ip
Markdown
Run as Pipeline
Python
Filter files by name
/ labs / PY0220EN /
Name
Last Modified
amd.json a year ago
apple.json a year ago
Final Assig... a minute ago
Final_Assi... 3 days ago
WebScrapi... 17 days ago
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`.
[32]:
url="https://cf-courses-data.s3.us.cloud-object-storage.appdomain.cloud/IBMDeveloperSkillsNetwork-PY0220EN-
html_data=requests.get(url).text
Parse the html data using beautiful_soup .
[33]:
beautiful_soup=BeautifulSoup(html_data,'html.parser')
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
[43]:
tesla_revenue=beautiful_soup.find_all('Date','Revenue')
Simple
Fully initialized
Python | I...
Mem: 518.51 / 6144.00 ...
Mode: Comma...
Ln 1, Co...
English (United Stat...
Final Assignment.ip...
Search
ENG US
11:51
24-10-2023

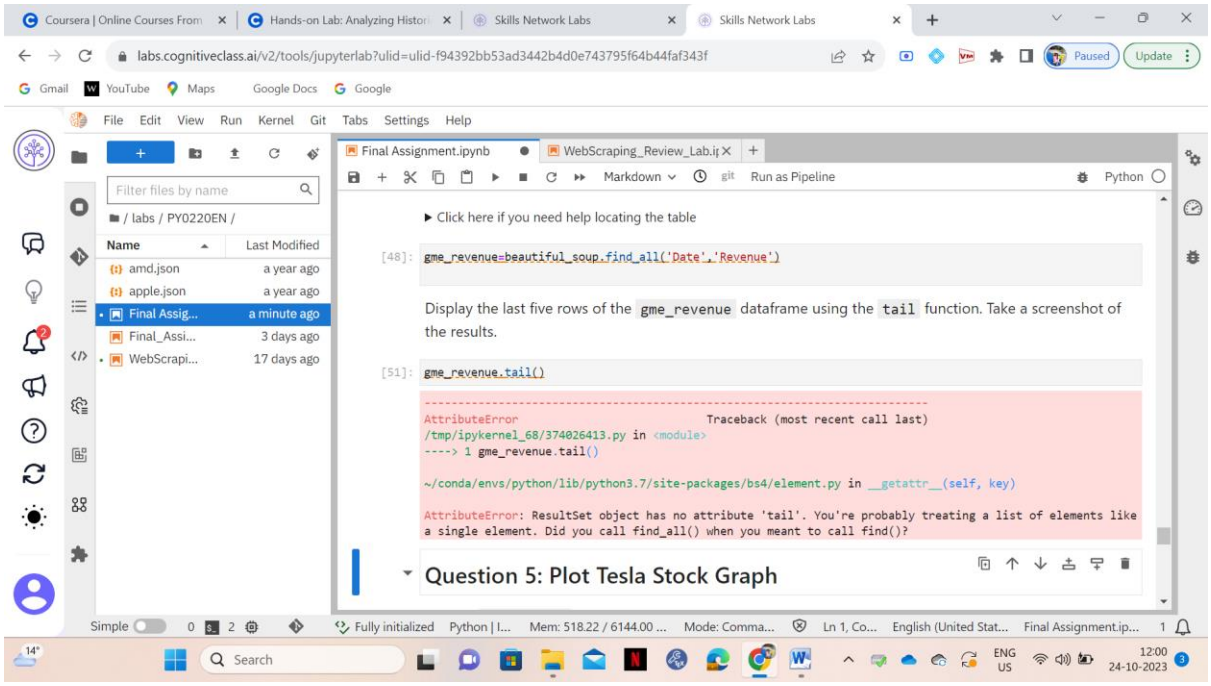

Coursera | Online Courses From
Hands-on Lab: Analyzing Histori
Skills Network Labs
Skills Network Labs
labs.cognitiveclass.ai/v2/tools/jupyterlab?ulid=ulid-f94392bb53ad3442b4d0e743795f64b44faf343f
Paused
Update
Gmail
YouTube
Maps
Google Docs
Google
File Edit View Run Kernel Git Tabs Settings Help
Final Assignment.ipynb
WebScraping_Review_Lab.ip
Markdown
Run as Pipeline
Python
Filter files by name
/ labs / PY0220EN /
Name
Last Modified
amd.json a year ago
apple.json a year ago
Final Assig... 2 minutes ago
Final_Assi... 3 days ago
WebScrapi... 17 days ago
Execute the following line to remove the comma and dollar sign from the Revenue column.
[44]:
tesla_revenue["Revenue"] = tesla_revenue['Revenue'].str.replace(',|\$',"")
TypeError Traceback (most recent call last)
/tmp/ipykernel_68/349343550.py in <module>
----> 1 tesla_revenue["Revenue"] = tesla_revenue['Revenue'].str.replace(',|\$',"")
TypeError: list indices must be integers or slices, not str
Execute the following lines to remove an null or empty strings in the Revenue column.
[39]:
tesla_revenue.dropna(inplace=True)
tesla_revenue = tesla_revenue[tesla_revenue['Revenue'] != ""]
AttributeError Traceback (most recent call last)
/tmp/ipykernel_68/2273276853.py in <module>
----> 1 tesla_revenue.dropna(inplace=True)
2
3 tesla_revenue = tesla_revenue[tesla_revenue['Revenue'] != ""]
~/conda/envs/python/lib/python3.7/site-packages/bs4/element.py in __getattr__(self, key)
Simple
Fully initialized
Python | I...
Mem: 518.55 / 6144.00 ...
Mode: Comma...
Ln 1, Co...
English (United Stat...
Final Assignment.ip...
Search
ENG US
11:52
24-10-2023


Coursera | Online Courses From
Hands-on Lab: Analyzing Histori
Skills Network Labs
Skills Network Labs
labs.cognitiveclass.ai/v2/tools/jupyterlab?ulid=ulid-f94392bb53ad3442b4d0e743795f64b44faf343f
Paused
Update
Gmail
YouTube
Maps
Google Docs
Google
File Edit View Run Kernel Git Tabs Settings Help
Final Assignment.ipynb
WebScraping_Review_Lab.ip
Markdown
Run as Pipeline
Python
Filter files by name
/ labs / PY0220EN /
Name
Last Modified
amd.json a year ago
apple.json a year ago
Final Assig... seconds ago
Final_Assi... 3 days ago
WebScrapi... 17 days ago
AttributeError Traceback (most recent call last)
/tmp/ipykernel_68/2273276853.py in <module>
----> 1 tesla_revenue.dropna(inplace=True)
2
3 tesla_revenue = tesla_revenue[tesla_revenue['Revenue'] != ""]
~/conda/envs/python/lib/python3.7/site-packages/bs4/element.py in __getattr__(self, key)
AttributeError: ResultSet object has no attribute 'dropna'. You're probably treating a list of elements like a single element. Did you call find_all() when you meant to call find()?
Display the last 5 row of the tesla_revenue dataframe using the tail function. Take a screenshot of the results.
[40]: tesla_revenue.tail()
AttributeError Traceback (most recent call last)
/tmp/ipykernel_68/899846489.py in <module>
----> 1 tesla_revenue.tail()
~/conda/envs/python/lib/python3.7/site-packages/bs4/element.py in __getattr__(self, key)
AttributeError: ResultSet object has no attribute 'tail'. You're probably treating a list of elements like a single element. Did you call find_all() when you meant to call find()?
Simple
Fully initialized
Python | I...
Mem: 518.43 / 6144.00 ...
Mode: Comma...
Ln 1, Co...
English (United Stat...
Final Assignment.ip...
Search
ENG US
11:53 24-10-2023


Coursera | Online Courses From
Hands-on Lab: Analyzing Histori
Skills Network Labs
labs.cognitiveclass.ai/v2/tools/jupyterlab?ulid=ulid-f94392bb53ad3442b4d0e743795f64b44faf343f
Paused
Update
Gmail
YouTube
Maps
Google Docs
Google
File Edit View Run Kernel Git Tabs Settings Help
Final Assignment.ipynb
Markdown
Run as Pipeline
Python
Filter files by name
/ labs / PY0220EN /
Name
Last Modified
amd.json a year ago
apple.json a year ago
Final Assig... seconds ago
Final_Assi... 2 days ago
WebScrapi... 16 days ago
Question 3: Use yfinance to Extract Stock Data
Using the Ticker function enter the ticker symbol of the stock we want to extract data on to create a ticker object. The stock is GameStop and its ticker symbol is GME.
[25]: import yfinance as yf
gme=yf.Ticker("GME")
Using the ticker object and the function history extract stock information and save it in a dataframe named gme_data. Set the period parameter to max so we get information for the maximum amount of time.
[26]: gme_data=gme.history(period="max")
Reset the index using the reset_index(inplace=True) function on the gme_data DataFrame and display the first five rows of the gme_data dataframe using the head function. Take a screenshot of the results and code from the beginning of Question 3 to the results below.
[27]: gme_data.reset_index(inplace=True)
gme_data.head()
Simple
Fully initialized
Python | I...
Mem: 480.63 / 6144.00 ...
Mode: Comma...
Ln 1, Co...
English (United Stat...
Final Assignment.ip...
13°C Partly sunny
Search
ENG US
20:14 23-10-2023


Coursera | Online Courses From
Hands-on Lab: Analyzing Histori
Skills Network Labs
labs.cognitiveclass.ai/v2/tools/jupyterlab?ulid=ulid-f94392bb53ad3442b4d0e743795f64b44faf343f
Paused
Update
Gmail
YouTube
Maps
Google Docs
Google
File Edit View Run Kernel Git Tabs Settings Help
Final Assignment.ipynb
Markdown
Run as Pipeline
Python
Filter files by name
/ labs / PY0220EN /
Name
Last Modified
amd.json a year ago
apple.json a year ago
Final Assig... a minute ago
Final_Assi... 2 days ago
WebScrapi... 16 days ago
Reset the index using the reset_index(inplace=True) function on the gme_data DataFrame and display the first five rows of the gme_data dataframe using the head function. Take a screenshot of the results and code from the beginning of Question 3 to the results below.
[27]:
gme_data.reset_index(inplace=True)
gme_data.head()
[27]:
Date Open High Low Close Volume Dividends Stock Splits
0 2002-02-13 1.620128 1.693350 1.603296 1.691666 76216000 0.0 0.0
1 2002-02-14 1.712707 1.716074 1.670626 1.683250 11021600 0.0 0.0
2 2002-02-15 1.683250 1.687458 1.658002 1.674834 8389600 0.0 0.0
3 2002-02-19 1.666418 1.666418 1.578047 1.607504 7410400 0.0 0.0
4 2002-02-20 1.615920 1.662210 1.603296 1.662210 6892800 0.0 0.0
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-
Simple
Fully initialized
Python | I...
Mem: 480.63 / 6144.00 ...
Mode: Comma...
Ln 1, Co...
English (United Stat...
Final Assignment.ip...
13°C
Partly sunny
Search
ENG
US
20:14
23-10-2023


Coursera | Online Courses From
Hands-on Lab: Analyzing Histori
Skills Network Labs
Skills Network Labs
labs.cognitiveclass.ai/v2/tools/jupyterlab?ulid=ulid-f94392bb53ad3442b4d0e743795f64b44faf343f
Paused
Update
Gmail
YouTube
Maps
Google Docs
Google
File Edit View Run Kernel Git Tabs Settings Help
Final Assignment.ipynb
WebScraping_Review_Lab.ip
Markdown
Run as Pipeline
Python
Filter files by name
/ labs / PY0220EN /
Name
Last Modified
amd.json a year ago
apple.json a year ago
Final Assig... a minute ago
Final_Assi... 3 days ago
WebScrapi... 17 days ago
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 .
[45]:
url="https://cf-courses-data.s3.us.cloud-object-storage.appdomain.cloud/IBMDeveloperSkillsNetwork-PY0220EN-
html_data=requests.get(url).text
Parse the html data using beautiful_soup .
[47]:
beautiful_soup=BeautifulSoup(html_data,'html.parser')
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 using a method similar to what you did in Question 2.
Click here if you need help locating the table
Simple
Fully initialized
Python | I...
Mem: 518.17 / 6144.00 ...
Mode: Comma...
Ln 1, Co...
English (United Stat...
Final Assignment.ip...
Search
ENG
US
11:59
24-10-2023


Coursera | Online Courses From
Hands-on Lab: Analyzing Histori
Skills Network Labs
Skills Network Labs
labs.cognitiveclass.ai/v2/tools/jupyterlab?ulid=ulid-f94392bb53ad3442b4d0e743795f64b44faf343f
Paused
Update
Gmail
YouTube
Maps
Google Docs
Google
File Edit View Run Kernel Git Tabs Settings Help
Filter files by name
/ labs / PY0220EN /
Name
Last Modified
amd.json a year ago
apple.json a year ago
Final Assig... a minute ago
Final_Assi... 3 days ago
WebScrapi... 17 days ago
Final Assignment.ipynb
WebScraping_Review_Lab.ip
Markdown
Run as Pipeline
Python
▶ Click here if you need help locating the table
[48]: gme_revenue=beautiful_soup.find_all('Date','Revenue')
Display the last five rows of the gme_revenue dataframe using the tail function. Take a screenshot of the results.
[51]: gme_revenue.tail()
AttributeError Traceback (most recent call last)
/tmp/ipykernel_68/374026413.py in <module>
----> 1 gme_revenue.tail()
~/conda/envs/python/lib/python3.7/site-packages/bs4/element.py in __getattr__(self, key)
AttributeError: ResultSet object has no attribute 'tail'. You're probably treating a list of elements like a single element. Did you call find_all() when you meant to call find()?
Question 5: Plot Tesla Stock Graph
Simple
Fully initialized
Python | I...
Mem: 518.22 / 6144.00 ...
Mode: Comma...
Ln 1, Co...
English (United Stat...
Final Assignment.ip...
Search
ENG
US
12:00
24-10-2023