from selenium import webdriver

from selenium.webdriver.common.by import By

from selenium.webdriver.chrome.options import Options

import pandas as pd

# Initialize Chrome browser

driver = webdriver.Chrome(options=Options())

#Maximize the browser window

driver.maximize\_window()

# Step 2: Navigate to the provided URL

driver.get("http://www.sunsirs.com/futures-price-daily.html")

#Find the table by xpath

table = driver.find\_element(By.XPATH,'/html/body/div[2]/div/div[2]/div[1]/div/div[4]/table/tbody')

# scrap the table headings

table\_header= []

for tr in table.find\_elements(By.XPATH,"//tr[1]"):

    colomn = [item.text for item in tr.find\_elements(By.XPATH,".//td")]

    table\_header.append(colomn)

# scrap table row data

table\_data = []

for tr in table.find\_elements(By.XPATH,'//tr'):

    row = [item.text for item in tr.find\_elements(By.XPATH, './/td')]

    table\_data.append(row)

# Pandas to Store into a DataFrame

df = pd.DataFrame(table\_data, columns=table\_header)

df.drop(0,inplace=True)

# Data Analysis Tasks

# Count the total number of rows

total\_rows = len(df)

# Find the commodity with highest daily closing price and the corresponding price.

commodity = df.loc[1]

# Save the extracted data with the sheet name as "Raw Data" in an Excel workbook

file\_name = 'RawData.xlsx'

df.to\_excel(file\_name)

driver.close()

# Display the results

print("Total Number of rows are", total\_rows)

print("Commodity with the highest daily closing price & Its corresponding price is",commodity)

print("Data has been saved in RawData.xlsx")