Scraping the most active stocks from Yahoo Finance:

- 1. Visit the target URL: https://finance.yahoo.com/
- 2. Hover over the Markets menu
- 3. Click on Trending Tickers
- 4. Click on Most Active
- 5. Ensure to visit all pages of stocks
- 6. Scrape the necessary data

1. Action Chains:

- o Action Chains in Selenium is a feature that allows automating complex user interactions such as mouse and keyboard events.
- o It is part of the ActionChains class in Selenium, designed to handle actions like clicking, dragging, hovering, and sending keyboard input.

Working of Action Chains:

- o An instance of ActionChains is created by passing the WebDriver instance
- Use various methods provided by the class to define a sequence of actions
- o Call the perform() method to execute all actions in the defined sequence

Common Methods:

o click(): Clicks on a specified web element

o click_and_hold(): Clicks without releasing the mouse button

odouble_click(): Double-clicks on the element

o_context_click(): Right-clicks on the element

o/move_to_element(): Moves the mouse pointer to the element

Action Clays (driver) informations. · method 2() · method 3() · perform() => execute

2. Stocks Jargon:

a. Symbol:

- o This is a unique identifier for a particular stock listed on a stock exchange
- o Ticker symbols are essential for identifying and trading stocks

b. Price:

- The current trading price of the stock (in dollars)
- o This is the most recent price at which the stock was bought/sold on the market

c. Change:

- $\circ\;$ The difference in the stock's current price compared to the previous day's closing price
- o +ve change indicates the price of the stock has increased from the previous day
- $\circ\;$ -ve change indicates the price of the stock has decreased from the previous day

d. Volume:

- $\circ\;$ The total number of shares of the stock during the current trading session
- $\circ \;\;$ Indicates the trading activity of the stock.
- o Higher volume usually means more interest in the stock

e. Market Cap:

- o Represents the total value of a company in the stock market
- o Ex: If a company has 1,000 shares and each costs \$10, then the company's market value is \$10,000

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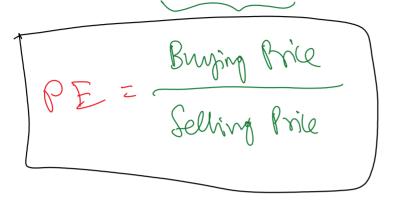
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o The larger the cap, the more stable the company usually is

f. PE Ratio:

- o Price to Earnings ratio
- o Can be thought of as the ratio of the CP of a stock to the SP of the stock



3. Loading a Webpage:

- o We can use return document.readyState to retrieve the current loading state of the web page
- The values returned by this command can be:
 - o loading: The document is still loading
 - o interactive: The document has been loaded but external resources like images and stylesheets might still be loading
 - o complete: The entire document, including external resources, has been fully loaded
- o This is commonly used in Selenium scripts to wait until the page is fully loaded before interacting with elements

4. until():

- o It has a parameter method
- o This parameter must be a callable (function or lambda) which takes a WebElement as input and returns a boolean value
- o If the callable doesn't return a truthy value within the timeout period, a TimeoutException exception will be raised

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Code Restructuring

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Steps Taken:

- Open the browser and maximize the window
- Initialize explicit wait instance
- Access the main URL and wait for page to load
- Hover over Markets menu
- Click on Trending Tickers
- Click on Most Active
- Navigated until the last page for more data
- Stored the extracted data in a list
- Close the browser
- Clean the extracted data
- Export the cleaned data as an Excel file

Auess Mais URL

es 2 - Extracting

Sorving Data