# Selenium Yahoo Finance Stock Price Scraper

## Overview

This Python script uses Selenium WebDriver to automate the retrieval of Tesla Inc.'s stock price from Yahoo Finance. It performs a search operation, verifies the autosuggest feature, selects Tesla Inc. from the search results, and validates whether the stock price is greater than $200. Additionally, it captures the previous closing price and trading volume.

## Prerequisites

Before running this script, ensure you have the following installed:  
  
- Python 3.x  
- Google Chrome browser  
- ChromeDriver (ensure compatibility with your Chrome version)  
- Selenium WebDriver

## Installation

1. Install Selenium WebDriver using pip:  
 **pip install selenium**  
2. Download and install Chromed river from

URL: https://sites.google.com/chromium.org/driver/)  
3. Ensure ChromeDriver is added to your system's PATH or provide the explicit path in the script.

## Usage

1. Save the script as **`yahoo\_finance\_scraper.py`.**  
2. Run the script using the command:  
 **python yahoo\_finance\_scraper.py**

## Script Workflow

1. Opens Yahoo Finance.  
2. Searches for "TSLA" (Tesla Inc.).  
3. Verifies the autosuggest feature.  
4. Clicks on the first search suggestion.  
5. Retrieves and verifies Tesla's stock price (> $200).  
6. Captures additional data:  
 - Previous Closing Price  
 - Trading Volume  
7. Logs each step to the console.  
8. Closes the browser upon completion or in case of an error.

## Error Handling

- The script includes assertions to validate the stock price.  
- If an error occurs, the exception is logged and the script gracefully exits by closing the browser.

## Notes

- Yahoo Finance's website structure may change over time. If the script fails, update the XPaths accordingly.  
- Ensure stable internet connectivity while running the script.