**Web Scraping Report: Walmart Canada Laptop Data**

Data Source:The data is sourced from the Walmart Canada website, specifically the laptop search page.

URL:<https://www.walmart.ca/en/search?query=laptop&catId=10003_20038_30548_41135&icid=search_page_electronics_sbm_windows_laptops_27247_SDCPRR5K4F>

**Methodology:**

Setup:The Selenium library is utilized to automate the Chrome browser.

Chrome options are configured using Options() for WebDriver settings.

Navigating to the Walmart Canada Laptop Search Page: A new instance of the Chrome driver is created using webdriver.Chrome. The script navigates to the Walmart Canada laptop search page using the provided URL.

Loading All Laptops: The script scrolls to the bottom of the page using JavaScript to ensure that all laptops are loaded. This involves repeatedly scrolling and waiting for the page to load dynamically.

Extracting Page Source: The page source is obtained after loading all laptops using driver.page\_source.

Parsing HTML with BeautifulSoup: BeautifulSoup is employed to parse the HTML content extracted from the page source.

Extracting Laptop Information: Laptop information is extracted from the HTML using BeautifulSoup.

The script identifies laptop elements using specific class attributes.

Creating Data Lists: Lists are created to store information such as laptop names, prices, URLs, IDs, and review counts.

Creating a DataFrame: A Pandas DataFrame is constructed from the collected data lists.

Saving to CSV: The DataFrame is saved to a CSV file named 'laptop\_data\_Walmart.csv' using df.to\_csv().

Closing the WebDriver:

The Chrome WebDriver is closed to end the scraping session.

Output:The scraped data is presented in a Pandas DataFrame and is concurrently saved to a CSV file for further analysis or storage. The CSV file is named 'laptop\_data\_Walmart.csv'.