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Week 2 – Task 1	
SELENIUM SCRAPING	

# SELENIUM SCRAPING

#### 1. Introduction

Web scraping is the process of extracting data from websites. In this task, we used Selenium (a browser automation tool) to scrape laptop details from Daraz.com. Selenium was chosen because Daraz loads content dynamically (JavaScript-driven), which simple requests + BeautifulSoup cannot fully capture.

### 2. Tools & Setup

- Python 3.9 (Conda environment)
- Selenium with ChromeDriver
- Pandas for saving scraped data

#### 3. Scraping Workflow

- Launch browser with Selenium.
- Search laptops on Daraz.com.
- Extract details from each product card:
  - Product Title
  - o Price
  - Product Image
  - Product Link
- Handle pagination, Navigate through multiple pages.
- Save data into a CSV file.

## 4. Libraries imported

```
from selenium import webdriver
from selenium.webdriver.common.by import By
from selenium.webdriver.chrome.service import Service
from selenium.webdriver.common.keys import Keys
from selenium.webdriver.support.ui import WebDriverWait
from selenium.webdriver.support import expected_conditions as EC
from webdriver_manager.chrome import ChromeDriverManager
import pandas as pd
import time
```

## 5. Chrome Set up

```
# Setup Chrome
driver = webdriver.Chrome(service=Service(ChromeDriverManager().install()))
driver.maximize_window()

url = "https://www.daraz.pk/catalog/?q=laptop&_keyori=ss&from=input&spm=a2a0e.searchlist.search.go.239f6d69N6SkTv"
driver.get(url)

wait = WebDriverWait(driver, 15)
time.sleep(3)
```

### 6. Scraping

```
laptops = {|
page = 1
max_pages = int(input("Enter the number of pages to scrape: "))

while page x= max_pages:
    print(f"Scraping Page {page}...")

# Scrall down slowly to lead products
for _ in range(3):
    driver.find mlement(By.TAG_NAME, "body").send_keys(Keys.END)
    time.sloop(3)

products = driver.find_elements(By.CLASS_NAME, "Bm3ON")

for product in products:
    tey:
        name = product.find_element(By.CLASS_NAME, "RFADt").text
    except:
        name = None

try;
    price = product.find_element(Oy.CLASS_NAME, "ooOxs").text
    except:
    price = None
```

# 7. Saving the CSV file After Scraping pages

```
Scraping Page 1...

Scraping Page 2...

Scraping Page 3...

Scraping Page 4...

Scraping Page 5...

Scraping Page 6...

Scraping Page 7...

# Save data

df = pd.DataFrame(laptops, columns=["Name", "Price", "Image", "Link"])

df.to_csv("daraz_laptops.csv", index=False, encoding="utf-8")

print(f" ✓ Scraping completed! Total {len(df)} products saved across {page} pages.")

✓ Scraping completed! Total 280 products saved across 8 pages.
```