Assignment 4

This assignment will help you practice **web scraping techniques** by extracting structured data from a live practice website. You will learn how to navigate HTML structures, extract relevant information, and save it in a structured format for analysis.

Q1. Write a Python program to scrape all available books from the website (https://books.toscrape.com/) Books to Scrape – a live site built for practicing scraping (safe, legal, no anti-bot). For each book, extract the following details:

1. Title
2. Price
3. Availability (In stock / Out of stock)
4. Star Rating (One, Two, Three, Four, Five)

Store the scraped results into a Pandas DataFrame and export them to a CSV file named books.csv.

(**Note:** Use the requests library to fetch the HTML page. Use BeautifulSoup to parse and extract book details and handle pagination so that books from all pages are scraped)

Q2. Write a Python program to scrape the IMDB Top 250 Movies list (https://www.imdb.com/chart/top/) . For each movie, extract the following details:

1. Rank (1–250)
2. Movie Title
3. Year of Release
4. IMDB Rating

Store the results in a Pandas DataFrame and export it to a CSV file named imdb_top250.csv.

(**Note:** Use Selenium/Playwright to scrape the required details from this website)

Q3. Write a Python program to scrape the weather information for top world cities from the given website (https://www.timeanddate.com/weather/) . For each city, extract the following details:

1. City Name
2. Temperature
3. Weather Condition (e.g., Clear, Cloudy, Rainy, etc.)

Store the results in a Pandas DataFrame and export it to a CSV file named weather.csv.