## Untitled4

In [1]: pip install requests beautifulsoup4 pandas

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Requirement already satisfied: requests in c:\users\muqthar\anaconda3\lib\site-pa
       ckages (2.31.0)Note: you may need to restart the kernel to use updated packages.
       Requirement already satisfied: beautifulsoup4 in c:\users\muqthar\anaconda3\lib\s
       ite-packages (4.12.2)
       Requirement already satisfied: pandas in c:\users\mugthar\anaconda3\lib\site-pack
       ages (2.1.4)
       Requirement already satisfied: charset-normalizer<4,>=2 in c:\users\muqthar\anaco
       nda3\lib\site-packages (from requests) (2.0.4)
       Requirement already satisfied: idna<4,>=2.5 in c:\users\muqthar\anaconda3\lib\sit
       e-packages (from requests) (3.4)
       Requirement already satisfied: urllib3<3,>=1.21.1 in c:\users\muqthar\anaconda3\l
       ib\site-packages (from requests) (2.0.7)
       Requirement already satisfied: certifi>=2017.4.17 in c:\users\muqthar\anaconda3\l
       ib\site-packages (from requests) (2024.2.2)
       Requirement already satisfied: soupsieve>1.2 in c:\users\muqthar\anaconda3\lib\si
       te-packages (from beautifulsoup4) (2.5)
       Requirement already satisfied: numpy<2,>=1.23.2 in c:\users\muqthar\anaconda3\lib
       \site-packages (from pandas) (1.26.4)
       Requirement already satisfied: python-dateutil>=2.8.2 in c:\users\muqthar\anacond
       a3\lib\site-packages (from pandas) (2.8.2)
       Requirement already satisfied: pytz>=2020.1 in c:\users\muqthar\anaconda3\lib\sit
       e-packages (from pandas) (2023.3.post1)
       Requirement already satisfied: tzdata>=2022.1 in c:\users\mugthar\anaconda3\lib\s
       ite-packages (from pandas) (2023.3)
       Requirement already satisfied: six>=1.5 in c:\users\muqthar\anaconda3\lib\site-pa
       ckages (from python-dateutil>=2.8.2->pandas) (1.16.0)
In [7]: import requests
        from bs4 import BeautifulSoup
        import pandas as pd
        # URL of the website to scrape
        url = 'https://books.toscrape.com/'
        # Send a GET request to the URL
        response = requests.get(url)
        # Check if the request was successful
        if response.status_code == 200:
            # Parse the HTML content of the page
            soup = BeautifulSoup(response.content, 'html.parser')
            # Extract relevant information (e.g., book titles, authors, prices, ratings)
            titles = [title.text.strip() for title in soup.find_all('h3')]
            prices = [price.text.strip() for price in soup.find_all('p', class_='price_c
            ratings = [p.attrs['class'][1] for p in soup.find_all('p', class_='star-rati
            # Create a DataFrame to store the extracted data
            books df = pd.DataFrame({
                 'Title': titles,
                 'Price': prices,
                'Rating': ratings
            })
            # Perform basic data analytics
            # For example, find the average rating
```

## Untitled4

```
ratings_map = {'One': 1, 'Two': 2, 'Three': 3, 'Four': 4, 'Five': 5}
books_df['Rating'] = books_df['Rating'].map(ratings_map)
average_rating = books_df['Rating'].mean()
print("Average Rating:", average_rating)

# Display the DataFrame
print(books_df)

else:
```

print("Failed to retrieve the webpage.")

Average Rating: 2.85

Title	Price	Rating
A Light in the	£51.77	3
Tipping the Velvet	£53.74	1
Soumission	£50.10	1
Sharp Objects	£47.82	4
Sapiens: A Brief History	£54.23	5
The Requiem Red	£22.65	1
The Dirty Little Secrets	£33.34	4
The Coming Woman: A	£17.93	3
The Boys in the	£22.60	4
The Black Maria	£52.15	1
Starving Hearts (Triangular Trade	£13.99	2
Shakespeare's Sonnets	£20.66	4
Set Me Free	£17.46	5
Scott Pilgrim's Precious Little	£52.29	5
Rip it Up and	£35.02	5
Our Band Could Be	£57.25	3
Olio	£23.88	1
Mesaerion: The Best Science	£37.59	1
Libertarianism for Beginners	£51.33	2
It's Only the Himalayas	£45.17	2
	Title A Light in the Tipping the Velvet Soumission Sharp Objects Sapiens: A Brief History The Requiem Red The Dirty Little Secrets The Dirty Little Secrets The Coming Woman: A The Boys in the The Black Maria Starving Hearts (Triangular Trade Shakespeare's Sonnets Set Me Free Scott Pilgrim's Precious Little Rip it Up and Our Band Could Be Olio Mesaerion: The Best Science	Title Price A Light in the f51.77 Tipping the Velvet f53.74 Soumission f50.10 Sharp Objects f47.82 Sapiens: A Brief History f54.23 The Requiem Red f22.65 The Dirty Little Secrets f33.34 The Coming Woman: A f17.93 The Boys in the f22.60 The Black Maria f52.15 Starving Hearts (Triangular Trade f13.99 Shakespeare's Sonnets f20.66 Set Me Free f17.46 Scott Pilgrim's Precious Little f52.29 Rip it Up and f35.02 Our Band Could Be f57.25 Olio f23.88 Mesaerion: The Best Science f37.59 Libertarianism for Beginners f51.33