In [1]:
```
pip install requests beautifulsoup4 pandas
```

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\muqthar\anaconda3\lib\site-pack
ages (2.1.4)
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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\muqthar\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]:
```python
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
```

```
        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
0                   A Light in the ...   £51.77       3
1                   Tipping the Velvet   £53.74       1
2                            Soumission   £50.10       1
3                        Sharp Objects   £47.82       4
4          Sapiens: A Brief History ...   £54.23       5
5                     The Requiem Red    £22.65       1
6          The Dirty Little Secrets ...   £33.34       4
7                The Coming Woman: A ...   £17.93       3
8                    The Boys in the ...   £22.60       4
9                      The Black Maria   £52.15       1
10  Starving Hearts (Triangular Trade ...   £13.99       2
11               Shakespeare's Sonnets   £20.66       4
12                         Set Me Free   £17.46       5
13     Scott Pilgrim's Precious Little ...   £52.29       5
14                    Rip it Up and ...   £35.02       5
15                  Our Band Could Be ...   £57.25       3
16                                 Olio   £23.88       1
17        Mesaerion: The Best Science ...   £37.59       1
18          Libertarianism for Beginners   £51.33       2
19               It's Only the Himalayas   £45.17       2
```