```
websites = {
    "Austin, TX": "https://rentberry.com/apartments/s/austin-tx",
    "Buffalo, NY": "https://rentberry.com/apartments/s/buffalo-ny",
    "Dallas, TX": "https://rentberry.com/apartments/s/dallas-tx",
    "New Jersey": "https://rentberry.com/apartments/s/jersey-city-nj"
    "Las Vegas, NV": "https://rentberry.com/apartments/s/las-vegas-nv",
    "Miami, FL": "https://rentberry.com/apartments/s/miami-fl",
    "Orlando, FL": "https://rentberry.com/apartments/s/orlando-fl",
    "Ottawa, CA": "https://rentberry.com/apartments/s/ottawa-on",
    "Vancouver, CA": "https://rentberry.com/apartments/s/vancouver-bc",
    "Toronto, CA": "https://rentberry.com/apartments/s/toronto-on",
    # Add other cities and URLs similarly
# Step 3: Set headers to mimic a browser
attributes = {
    'User-Agent': 'Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/91.0.4472.124 Safari/537.36'
# Step 4: Use a session to persist cookies between requests
session = requests.Session()
# Step 5: Loop through cities
for city, url in websites.items():
    # Step 6: Loop through the first 10 pages
    for page in range(1, 11):
        page_url = f"{url}?page={page}"
        # Step 7: Retry mechanism (adjust the number of retries as needed)
        for retry in range(3):
            try:
                result = session.get(page_url, headers=attributes, timeout=10)
                result.raise_for_status()
                time.sleep(1)
                break # Break the retry loop if successful
            except requests.RequestException as e:
                print(f"Error fetching data for {city} - Page {page}, Retry {retry + 1}: {e}")
                time.sleep(2) # Add a delay before retrying
        # Step 8: Extract and print data
        try:
            soup = BeautifulSoup(result.content, 'html.parser')
            # Extract property titles
            titles = soup.find_all('h1', class_='rb-h1-title')
            for title in titles:
                print(title.text)
            # Extract listings count
            listings_count = soup.find('b')
            if listings_count:
                print(f"Listings found: {listings_count.text}")
            else:
                print(f"No property details found for {city} - Page {page}")
        except Exception as e:
            print(f"Error parsing data for {city} - Page {page}: {e}")
            continue
Austin, TX, USA apartments for rent
Listings found: 8467
Austin, TX, USA apartments for rent
Listings found: 8467
Austin, TX, USA apartments for rent
Listings found: 8467
Austin, TX, USA apartments for rent
Listings found: 8468
Austin, TX, USA apartments for rent
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Austin, TX, USA apartments for rent
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Austin, TX, USA apartments for rent
Listings found: 8468
Austin, TX, USA apartments for rent
Listings found: 8468
Buffalo, NY, USA apartments for rent
Listings found: 506
Buffalo, NY, USA apartments for rent
Listings found: 506
Buffalo, NY, USA apartments for rent
Listings found: 506
Buffalo, NY, USA apartments for rent
Listings found: 506
Buffalo, NY, USA apartments for rent
Listings found: 506
Buffalo, NY, USA apartments for rent
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Buffalo, NY, USA apartments for rent
Listings found: 506
Buffalo, NY, USA apartments for rent
Listings found: 506
Buffalo, NY, USA apartments for rent
Listings found: 506
Buffalo, NY, USA apartments for rent
Listings found: 506
Dallas, TX, USA apartments for rent
Listings found: 8986
Dallas, TX, USA apartments for rent
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Dallas, TX, USA apartments for rent
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Dallas, TX, USA apartments for rent
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Dallas, TX, USA apartments for rent
Listings found: 8986
Dallas, TX, USA apartments for rent
Listings found: 8986
Jersey City, NJ, USA apartments for rent
Listings found: 3874
Jersey City, NJ, USA apartments for rent
Listings found: 3874
Jersey City, NJ, USA apartments for rent
Listings found: 3874
Jersey City, NJ, USA apartments for rent
Listings found: 3874
Jersey City, NJ, USA apartments for rent
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Jersey City, NJ, USA apartments for rent
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Jersey City, NJ, USA apartments for rent
Listings found: 3874
Las Vegas, NV, USA apartments for rent
Listings found: 2462
Las Vegas, NV, USA apartments for rent
Listings found: 2462
Las Vegas, NV, USA apartments for rent
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Las Vegas, NV, USA apartments for rent
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Las Vegas, NV, USA apartments for rent
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Las Vegas, NV, USA apartments for rent
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Las Vegas, NV, USA apartments for rent
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Miami, FL, USA apartments for rent
Listings found: 11033
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Orlando, FL, USA apartments for rent
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Ottawa, ON, Canada apartments for rent
Listings found: 600
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Ottawa, ON, Canada apartments for rent
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Vancouver, BC, Canada apartments for rent
Listings found: 1443
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Vancouver, BC, Canada apartments for rent
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Vancouver, BC, Canada apartments for rent
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Vancouver, BC, Canada apartments for rent
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Vancouver, BC, Canada apartments for rent
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Vancouver, BC, Canada apartments for rent
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Toronto, ON, Canada apartments for rent
Listings found: 4367
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Toronto, ON, Canada apartments for rent
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Toronto, ON, Canada apartments for rent
Listings found: 4367
Step 1: Import Necessary Libraries
The script uses the requests library to send HTTP requests, BeautifulSoup for HTML parsing, and time for introducing delays.
Step 2: Define the List of Cities and Websites A dictionary is created to map cities to their corresponding Rentberry URLs. This allows the script to iterate through different locations.
Step 3: Set Headers to Mimic a Browser Headers are specified to emulate a web browser, enhancing the script's ability to access and retrieve data from the Rentberry website.
Step 4: Use a Session to Persist Cookies Between Requests A session is established to persist cookies across multiple requests, ensuring a more seamless interaction with the
website.
```

In [1]: # Step 1: Import necessary libraries

from bs4 import BeautifulSoup

# Step 2: Define the list of cities and websites

import requests

import time

I

information for analysis.

Step 5: Loop Through Cities The script iterates through the defined cities and their associated URLs, initiating the scraping process for each location.

Step 6: Loop Through the First 10 Pages For each city, the script navigates through the first 10 pages of property listings, constructing the URL accordingly.

Step 7: Retry Mechanism A retry mechanism is implemented to handle potential network issues. The script attempts to fetch data multiple times before raising an exception.

Step 8: Extract and Print Data The script uses BeautifulSoup to parse the HTML content of the fetched page. It extracts property titles and the count of listings, printing the

various cities. The extracted information will be utilized in subsequent phases of the Capstone Project, including data analysis and machine learning model development.

Conclusion The web scraping script systematically gathers data about long-term rental properties from Rentberry, providing valuable insights into property titles and listing counts for