1. Import Required Modules

- `csv`: Used for reading the CSV file containing book data.
- `get_close_matches` (from `difflib`): Used for finding similar book titles based on the given input.

2. Define `load_data(file_path)` Function

- **Purpose**: Load book data from a CSV file and store it in a list.
- **Steps**:
    1. Initialize an empty list `books`.
    2. Open the CSV file in read mode (`utf-8` encoding).
    3. Create a CSV reader object.
    4. Skip the first row (header).
    5. Iterate through each row and extract the **Title**, **Author**, and **Publisher** (assuming at least 3 columns).
    6. Append extracted data as a tuple to the `books` list.
    7. Return the `books` list.

3. Define `recommend_books(book_title, books, top_n=5)` Function

- **Purpose**: Find and return book titles similar to the given `book_title`.
- **Steps**:
    1. Extract all book titles from the `books` list.
    2. Use `get_close_matches` to find up to `top_n` similar book titles.
    3. If matches are found, return them; otherwise, return `"No similar books found."`

4. Load the Dataset

- Call `load_data(r"c:\Users\balaj\Downloads\Books system.csv")` to read the book dataset into the `books` variable.

5. Test the Recommendation System

- Define a book title (`"Classical Mythology"`).
- Call `recommend_books(book_name, books)` to get recommendations.
- Print the recommended book titles.

```
import csv
from difflib import get_close_matches


def load_data(file_path):
    books = []
    with open(file_path, newline='', encoding='utf-8') as csvfile:
        reader = csv.reader(csvfile)
        next(reader)  # Skip header
        for row in reader:
            if len(row) >= 3:
                books.append((row[1], row[2], row[3]))  # (Title,
Author, Publisher)
    return books


def recommend_books(book_title, books, top_n=5):
    titles = [book[0] for book in books]
    similar_titles = get_close_matches(book_title, titles, n=top_n,
cutoff=0.4)
```

```
    return similar_titles if similar_titles else "No similar books
found."



# Load dataset

books = load_data(r"c:\Users\balaj\Downloads\Books system.csv")



# Example Usage

book_name = "Classical Mythology"

print("Recommended books:", recommend_books(book_name, books))
```

OUTPUT:

Recommended books: ['Classical Mythology', 'Classical Mythology', 'Classical mythology', 'Classical mythology', "Who's Who in Non-Classical Mythology"]