Assignment: Library Book Management System

Description:

You are to create a simple library book management system. The system should allow for:

1. **Adding books:** Books should have a title, author, and ISBN (International Standard Book Number).
2. **Borrowing books:** Books can be borrowed by their ISBN.
3. **Returning books:** Borrowed books can be returned by their ISBN.
4. **Listing available books:** The system should list all books that are currently available.
5. **Listing borrowed books:** The system should list all books that are currently borrowed.

Specifications:

- The system should maintain a list of books and their borrowing status.
- Implement the system as a Library class.
- Ensure proper error handling (e.g., book not found, book already borrowed).
- The system should operate in memory (no file storage required for this assignment).

Marking Scheme:

- **20% - Book Class:**
  - Correct implementation of the Book class with title, author, isbn, and borrowed attributes.
  - Correct implementation of the __str__ method.
- **50% - Library Class:**

- Correct implementation of add_book, borrow_book, return_book, list_available_books, and list_borrowed_books methods.
- Proper handling of book borrowing and returning status.
- Correctly managing the book list.
- Proper return values for borrow and return functions.

- **20% - Error Handling:**

  - Handling cases where a book is not found (returning None).
  - Handling cases where a book is already borrowed or returned (returning False).

- **10% - Code Quality:**

  - Readability, comments, and proper code structure.
  - Adherence to Python coding conventions.
  - Correct usage of lists and booleans.
  - Correct execution of the test function.