EXAMEN 2 : Simple Library System

Objective

Your task is to create a simple library system that can manage books and their availability. Develop two classes: **Book** and **Library**. Each **Library** instance will manage a single book.

Classes to Implement

1. **Book**
   - **Description**: Represents a book with a title and an availability status.
   - **Attributes**:
     - `title` (String): The title of the book.
     - `status` (String): The availability status ("Available" or "Unavailable").
   - **Constructor**: Initializes the book's title and status.
   - **Methods**: Getter methods for both `title` and `status`.
2. **Library**
   - **Description**: Manages a single book.
   - **Attributes**: A **Book** object.
   - **Constructor**: Default constructor.
   - **Methods**:
     - `addBook(Book book)`: Adds a book to the library.
     - `checkAvailability(String title)`: Returns the availability status of the book.

ExerciseRunner (Provided)

```
public class ExerciseRunner {
public static void main(String[] args) {
// Library instances with books
// Your task is to implement the logic
// ...
}
}
```

Tasks

1. Implement the **Book** and **Library** classes as described.
2. Ensure compatibility with the provided **ExerciseRunner** class.

Rules

- No use of ChatGPT, COPILOT, or IDE automations.
- No collaboration allowed.
- Internet use is authorized.
- Examination time: 11h50 to 12h50.

Evaluation Criteria

- Correct implementation of the **Book** and **Library** classes.
- Accurate handling of book availability.
- Adherence to Java coding standards and conventions.

Submission

Rename your project folder to **NAME_LIBRARY**. Zip the **NAME_LIBRARY** folder and submit it to me in private on TEAMS.