**EXERCISE 2**

**1.Define the BookController class:**

1. Create a new package named controller if it doesn’t already exist.
2. Inside the controller package, create a new class called BookController.
3. Annotate the class with @RestController to indicate that it is a REST controller.
4. Add @RequestMapping("/books") at the class level to map all HTTP requests for /books to this controller.

**2.Implement Methods to Handle GET, POST, PUT, and DELETE Requests:**

1. **GET Request** - Retrieve all books.
2. **GET Request** - Retrieve a book by its ID.
3. **POST Request** - Add a new book.
4. **PUT Request** - Update an existing book.
5. **DELETE Request** - Remove a book by its ID.

**3.Ensure the Controller Returns JSON Responses:**

* By default, Spring Boot will return JSON responses from the controller methods if the return type is an object, list, or other serializable types.
* The @RestController annotation implicitly applies @ResponseBody to all methods, which ensures that the response is serialized to JSON.

**4.Define the Book Entity:**

1. Create a new package named model if it doesn’t already exist.
2. Inside the model package, create a class named Book.
3. Define attributes such as id, title, author, price, and isbn. Use Lombok annotations to generate getters, setters, and other boilerplate code.