**Exercise 2: Implementing Dependency Injection**

package com.week3.LibraryManagement;

import org.springframework.beans.factory.annotation.Autowired;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

import org.springframework.boot.CommandLineRunner;

@SpringBootApplication

public class LibraryManagementApplication implements CommandLineRunner{

@Autowired

private BookService bookService;

public static void main(String[] args) {

SpringApplication.run(LibraryManagementApplication.class, args);

}

@Override

public void run(String... args) {

bookService.displayBooks();

}

}

package com.week3.LibraryManagement;

import org.springframework.beans.factory.annotation.Autowired;

import org.springframework.stereotype.Service;

@Service

public class BookService {

private final BookRepository bookRepository;

public BookService(BookRepository bookRepository) {

this.bookRepository = bookRepository;

}

public void displayBooks() {

System.out.println("BookService: Calling repository...");

bookRepository.getBooks();

}

}

**package** com.week3.LibraryManagement;

**import** org.springframework.stereotype.Repository;

@Repository

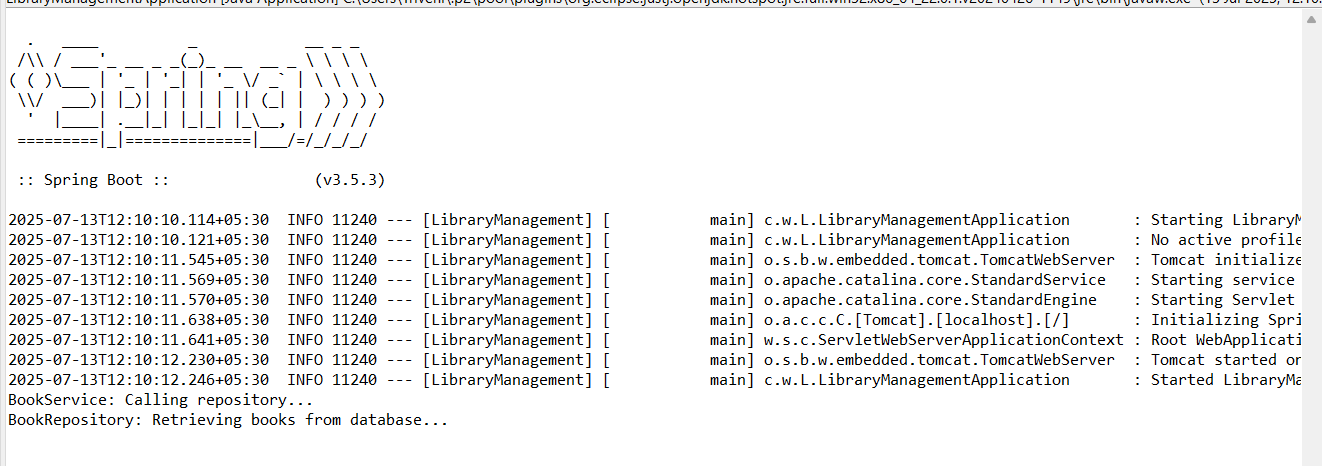
**public** **class** BookRepository {

**public** **void** getBooks() {

System.***out***.println("BookRepository: Retrieving books from database...");

}

}



A screenshot of a computer program

AI-generated content may be incorrect.