**Exercise 5: Configuring the Spring IoC Container**

**applicationContext.xml:**

<?xml version=*"1.0"* encoding=*"UTF-8"*?>

<beans xmlns=*"http://www.springframework.org/schema/beans"*

xmlns:xsi=*"http://www.w3.org/2001/XMLSchema-instance"*

xsi:schemaLocation=*"*

*http://www.springframework.org/schema/beans*

*http://www.springframework.org/schema/beans/spring-beans.xsd"*>

<!-- BookRepository Bean -->

<bean id=*"bookRepository"* class=*"com.library.repository.BookRepository"* />

<!-- BookService Bean with Setter Injection -->

<bean id=*"bookService"* class=*"com.library.service.BookService"*>

<property name=*"bookRepository"* ref=*"bookRepository"* />

</bean>

</beans>

**BookService.java:**

package com.library.service;

import com.library.repository.BookRepository;

public class BookService {

private BookRepository bookRepository;

public void setBookRepository(BookRepository bookRepository) {

this.bookRepository = bookRepository;

}

public void displayBooks() {

System.*out*.println("BookService: Displaying books...");

bookRepository.getBooks();

}

}

**BookRepository.java:**

package com.library.repository;

public class BookRepository {

public void getBooks() {

System.*out*.println("BookRepository: Returning list of books.");

}

}

**LibraryManagementApplication.java:**

package com.library;

import com.library.service.BookService;

import org.springframework.context.ApplicationContext;

import org.springframework.context.support.ClassPathXmlApplicationContext;

public class App {

public static void main(String[] args) {

ApplicationContext context = new ClassPathXmlApplicationContext("applicationContext.xml");

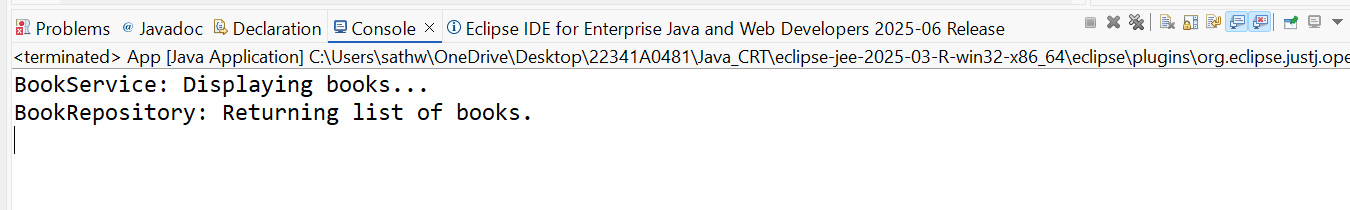
BookService bookService = context.getBean("bookService", BookService.class);

bookService.displayBooks();

}

}

**Output:**

****