**Exercise 7: Implementing Constructor and Setter Injection**

**BookService.java**

package com.library.service;

import com.library.repository.BookRepository;

public class BookService {

private BookRepository bookRepository;

**// Constructor Injection**

public BookService(BookRepository bookRepository) {

this.bookRepository = bookRepository;

}

// A sample method to get a book

public String getBookDetails(int bookId) {

return bookRepository.findBookById(bookId);

}

**// Setter method for Setter Injection (Step 2)**

public void setBookRepository(BookRepository bookRepository) {

this.bookRepository = bookRepository;

}

}

Now, update the applicationContext.xml for Constructor Injection

**<!-- Define BookRepository Bean -->**

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

**<!-- Define BookService Bean with Constructor Injection -->**

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

**<!-- Constructor Injection -->**

<constructor-arg ref="bookRepository" />

</bean>

For Setter Injection Configuration,

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

**<!-- Constructor Injection -->**

<constructor-arg ref="bookRepository" />

**<!-- Setter Injection -->**

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

Run the Application to check the Constructor and Setter Injection

