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

applicationContext.xml :

<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">

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

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

    <constructor-arg ref="bookRepository"/>

    <property name = "nameRepository" value="central repository"/>

    </bean>

</beans>

bookRepository :

package com.library.repository;

public class BookRepository {

    public String getBook() {

        return "Book by Vasanth";

    }

}

bookService :

package com.library.service;

import com.library.repository.BookRepository;

public class BookService {

    private BookRepository bookRepository;

    private String nameRepository;

    BookService(BookRepository bookRepository){

        this.bookRepository = bookRepository;

    }

    public void setNameRepository(String nameRepository) {

        this.nameRepository = nameRepository;

    }

    public void displayBook() {

        System.out.println("name of repo : "+nameRepository);

        System.out.println("Book: " + bookRepository.getBook());

    }

}

Main.java:

package com.library;

import org.springframework.context.ApplicationContext;

import org.springframework.context.support.ClassPathXmlApplicationContext;

import com.library.service.BookService;

public class Main {

    public static void main(String[] args) {

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

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

        bookService.displayBook();

    }

}

A screen shot of a computer screen

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