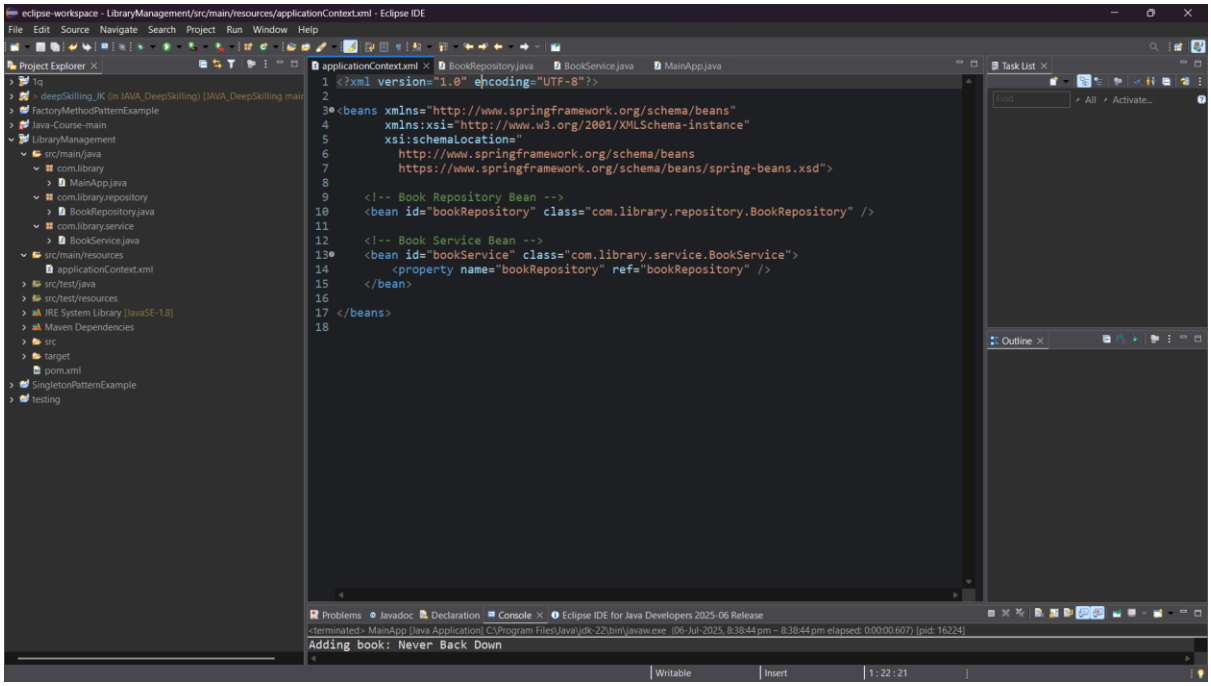
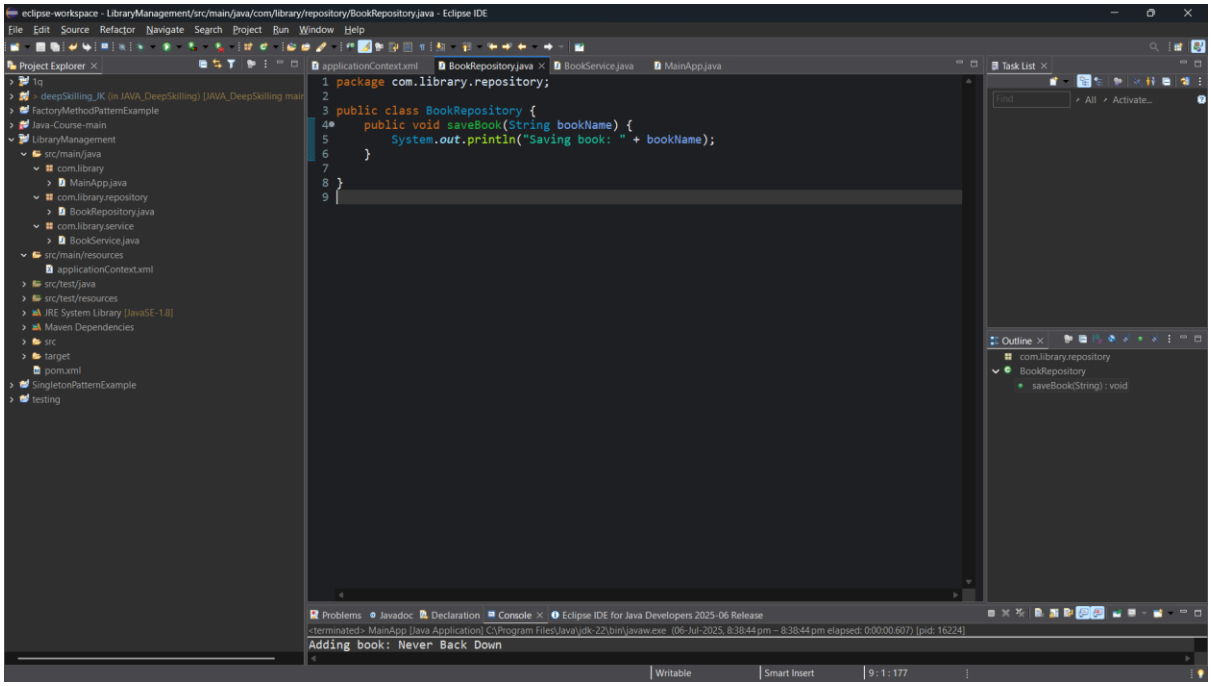
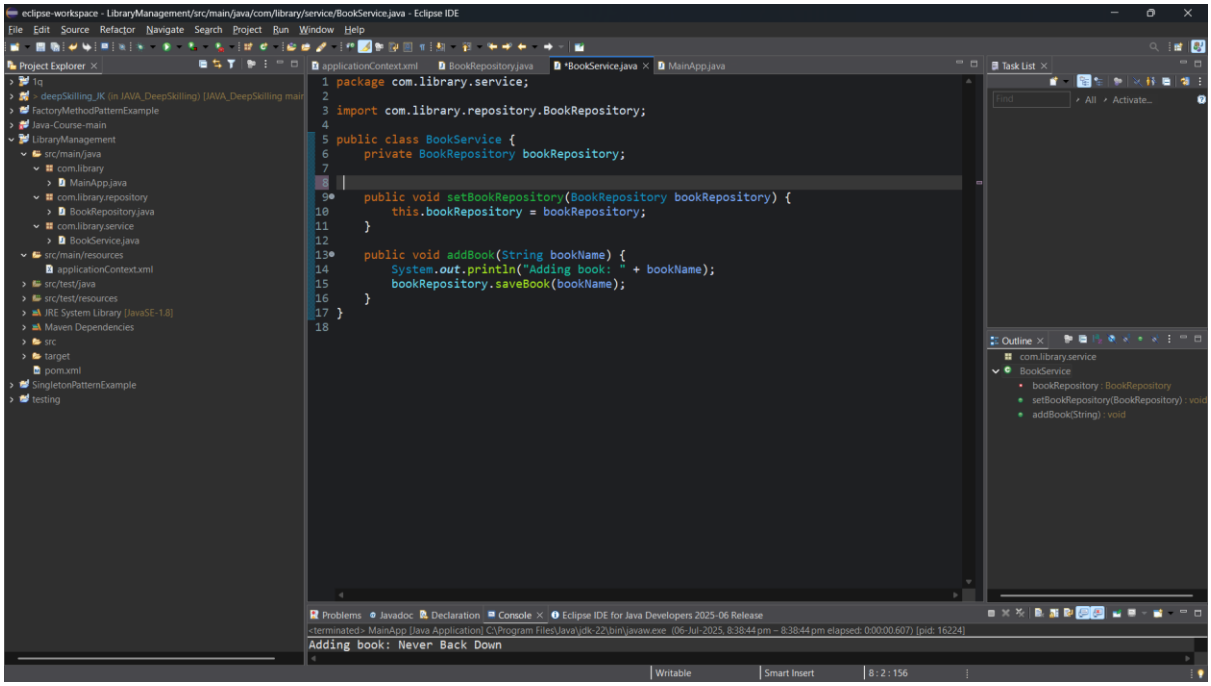
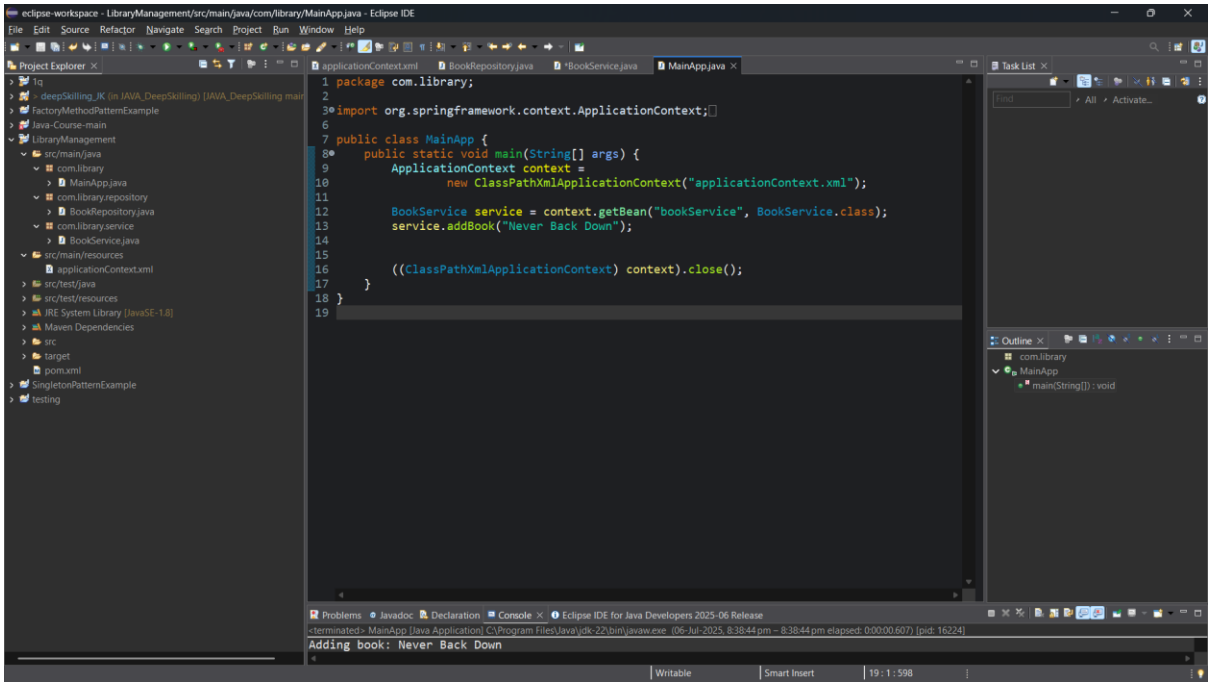
# WEEK – 3

## Configuring a Basic Spring Application

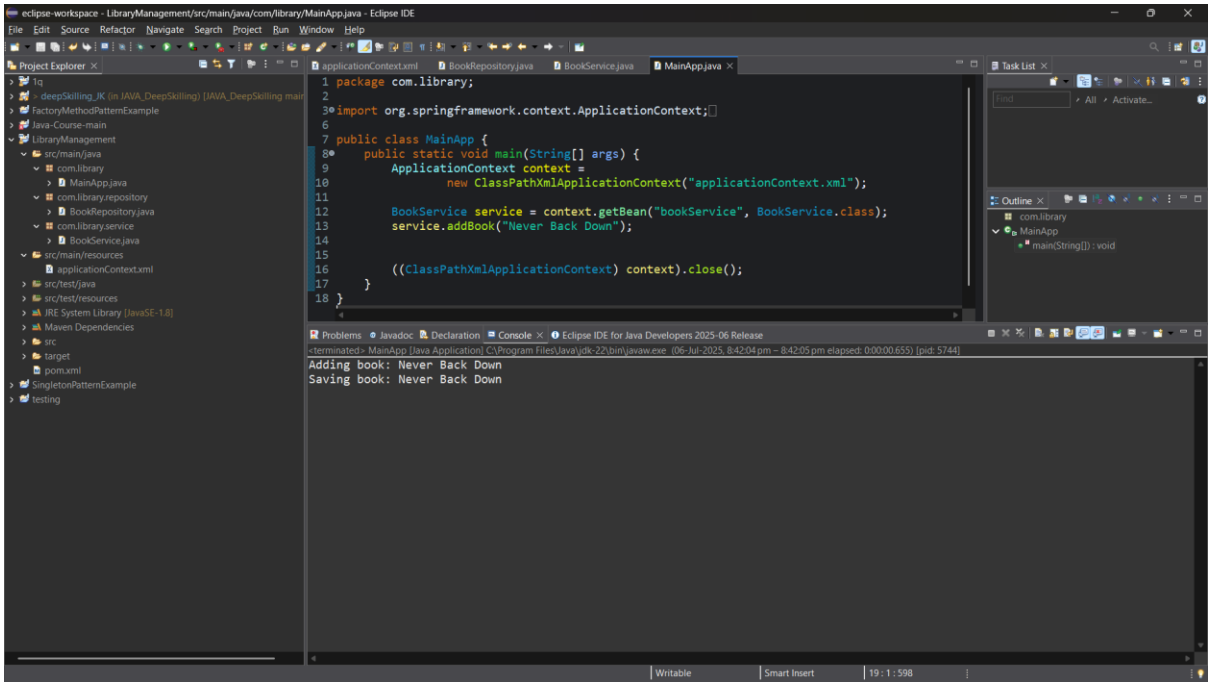


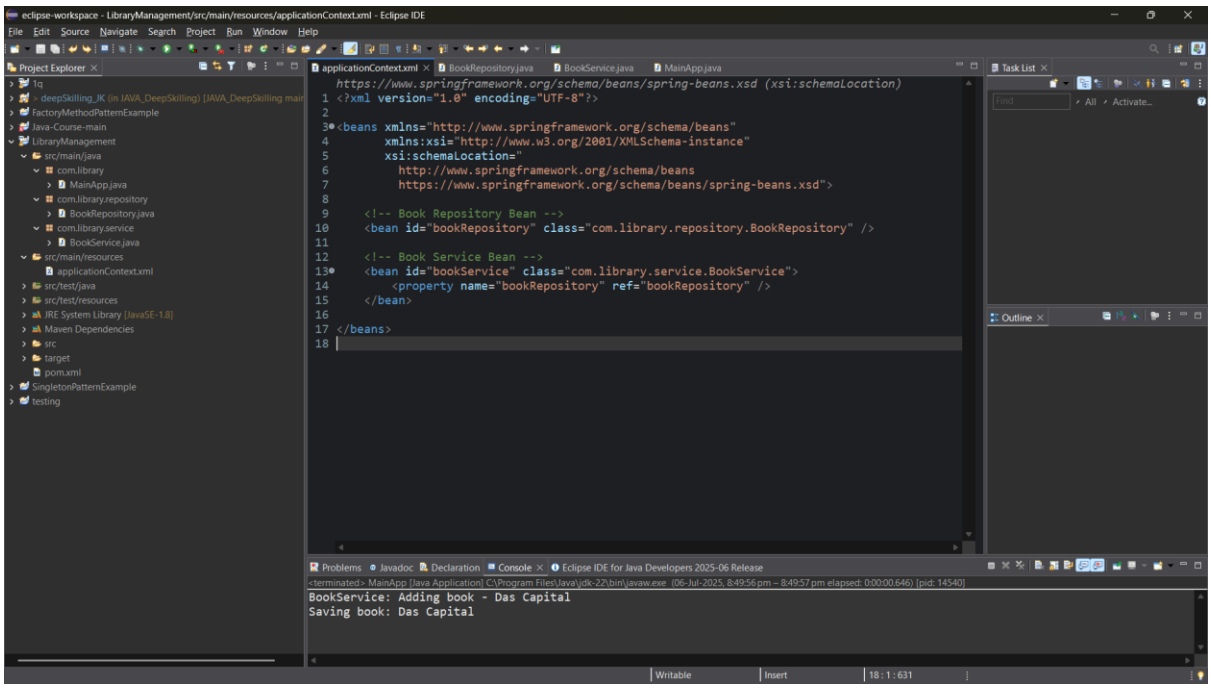

eclipse-workspace - LibraryManagement/src/main/java/com/library/service/BookService.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer
applicationContext.xml
BookRepository.java
*BookService.java
MainApp.java
Task List
1 package com.library.service;
2
3 import com.library.repository.BookRepository;
4
5 public class BookService {
6 private BookRepository bookRepository;
7
8
9 public void setBookRepository(BookRepository bookRepository) {
10 this.bookRepository = bookRepository;
11 }
12
13 public void addBook(String bookName) {
14 System.out.println("Adding book: " + bookName);
15 bookRepository.saveBook(bookName);
16 }
17 }
18
Outline
com.library.service
BookService
bookRepository : BookRepository
setBookRepository(BookRepository) : void
addBook(String) : void
Problems Javadoc Declaration Console Eclipse IDE for Java Developers 2025-06 Release
<terminated> MainApp [Java Application] C:\Program Files\Java\jdk-22\bin\javaw.exe (06-Jul-2025, 8:38:44 pm – 8:38:44 pm elapsed: 0:00:00.607) [pid: 16224]
Adding book: Never Back Down
Writable
Smart Insert
8 : 2 : 156

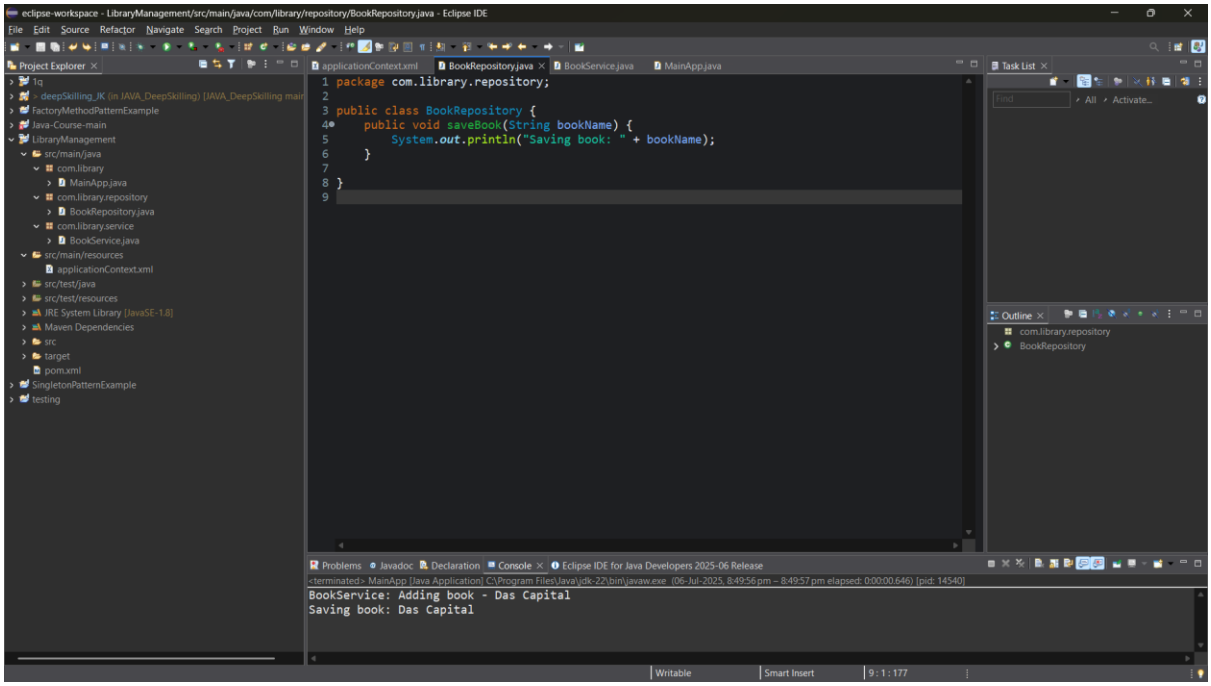

eclipse-workspace - LibraryManagement/src/main/java/com/library/MainApp.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer
applicationContext.xml
BookRepository.java
*BookService.java
MainApp.java
Task List
1 package com.library;
2
3 import org.springframework.context.ApplicationContext;
6
7 public class MainApp {
8 public static void main(String[] args) {
9 ApplicationContext context =
10 new ClassPathXmlApplicationContext("applicationContext.xml");
11
12 BookService service = context.getBean("bookService", BookService.class);
13 service.addBook("Never Back Down");
14
15
16 ((ClassPathXmlApplicationContext) context).close();
17 }
18 }
19
Outline
com.library
MainApp
main(String[]) : void
Problems Javadoc Declaration Console Eclipse IDE for Java Developers 2025-06 Release
<terminated> MainApp [Java Application] C:\Program Files\Java\jdk-22\bin\javaw.exe (06-Jul-2025, 8:38:44 pm – 8:38:44 pm elapsed: 0:00:00.607) [pid: 16224]
Adding book: Never Back Down
Writable
Smart Insert
19 : 1 : 598

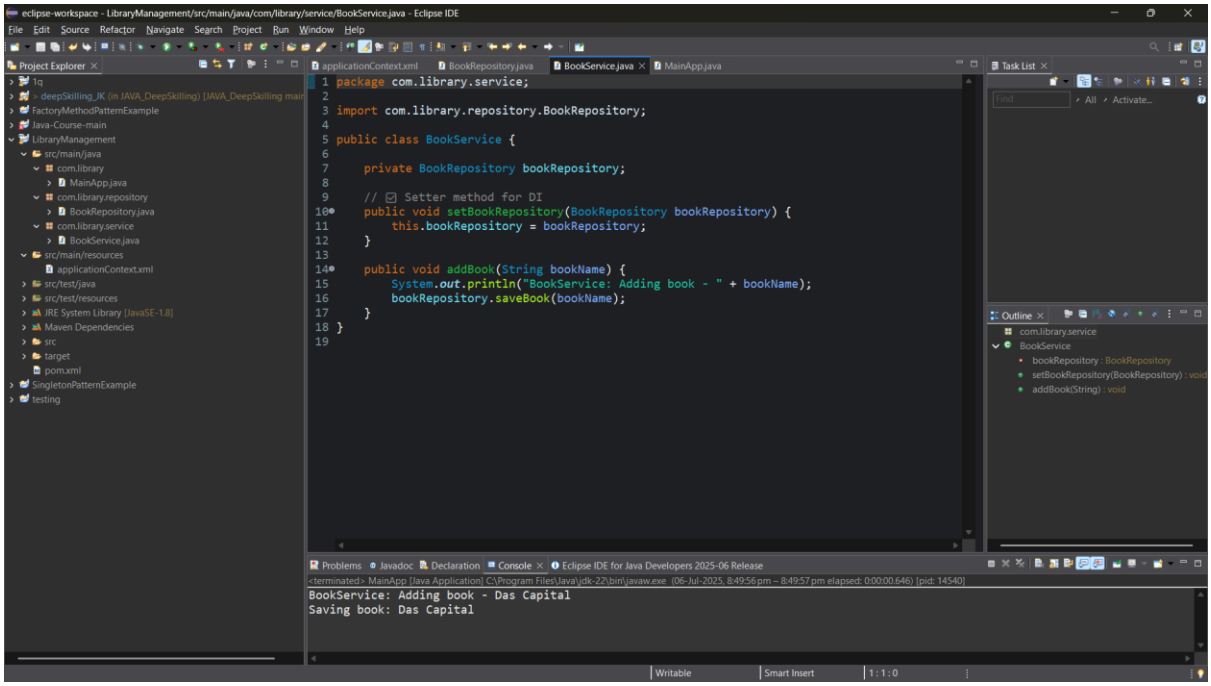
# OUTPUT

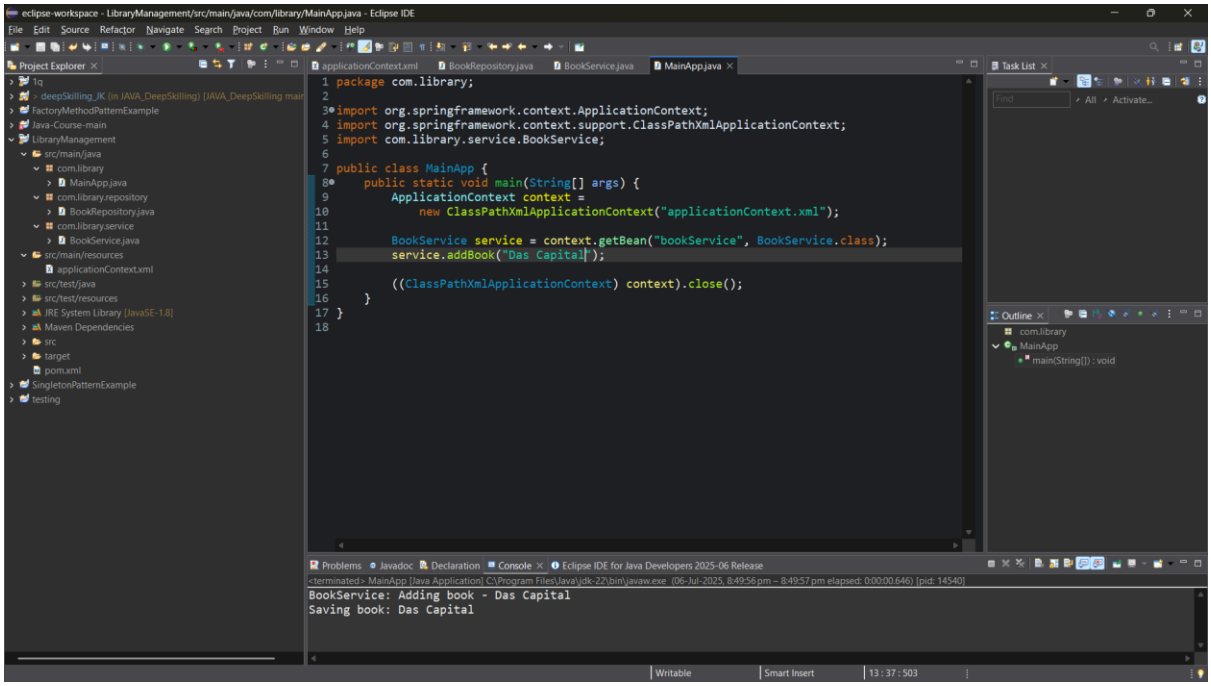

eclipse-workspace - LibraryManagement/src/main/java/com/library/MainApp.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer
applicationContext.xml
BookRepository.java
BookService.java
MainApp.java
1 package com.library;
2
3 import org.springframework.context.ApplicationContext;
6
7 public class MainApp {
8 public static void main(String[] args) {
9 ApplicationContext context =
10 new ClassPathXmlApplicationContext("applicationContext.xml");
11
12 BookService service = context.getBean("bookService", BookService.class);
13 service.addBook("Never Back Down");
14
15
16 ((ClassPathXmlApplicationContext) context).close();
17 }
18 }
Task List
Outline
com.library
MainApp
main(String[]) : void
Problems Javadoc Declaration Console Eclipse IDE for Java Developers 2025-06 Release
<terminated> MainApp [Java Application] C:\Program Files\Java\jdk-22\bin\javaw.exe (06-Jul-2025, 8:42:04 pm – 8:42:05 pm elapsed: 0:00:00.655) [pid: 5744]
Adding book: Never Back Down
Saving book: Never Back Down
Writable
Smart Insert
19 : 1 : 598

# Implementing Dependency Injection

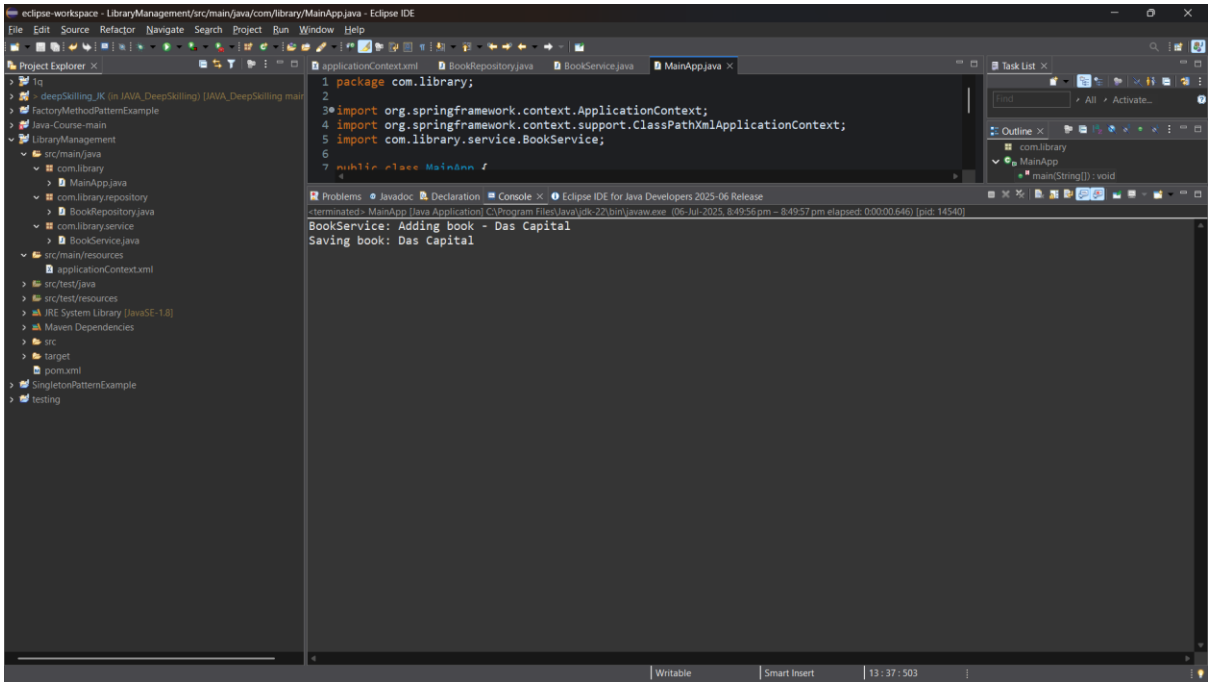


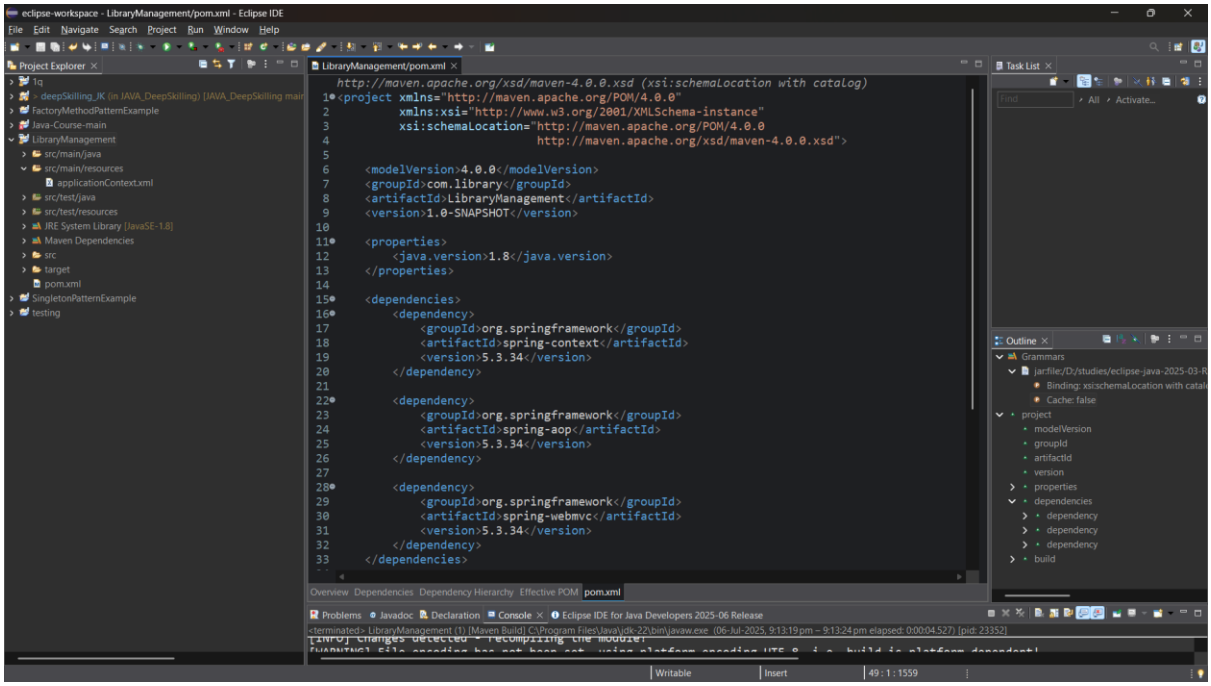

eclipse-workspace - LibraryManagement/src/main/java/com/library/service/BookService.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer
applicationContext.xml
BookRepository.java
BookService.java
MainApp.java
1 package com.library.service;
2
3 import com.library.repository.BookRepository;
4
5 public class BookService {
6
7 private BookRepository bookRepository;
8
9 // Setter method for DI
10 public void setBookRepository(BookRepository bookRepository) {
11 this.bookRepository = bookRepository;
12 }
13
14 public void addBook(String bookName) {
15 System.out.println("BookService: Adding book - " + bookName);
16 bookRepository.saveBook(bookName);
17 }
18 }
19
Task List
Outline
com.library.service
BookService
bookRepository : BookRepository
setBookRepository(BookRepository) : void
addBook(String) : void
Problems Javadoc Declaration Console Eclipse IDE for Java Developers 2025-06 Release
<terminated> MainApp [Java Application] C:\Program Files\Java\jdk-22\bin\javaw.exe (06-Jul-2025, 8:49:56 pm – 8:49:57 pm elapsed: 0:00:00.646) [pid: 14540]
BookService: Adding book - Das Capital
Saving book: Das Capital
Writable
Smart Insert
1 : 1 : 0

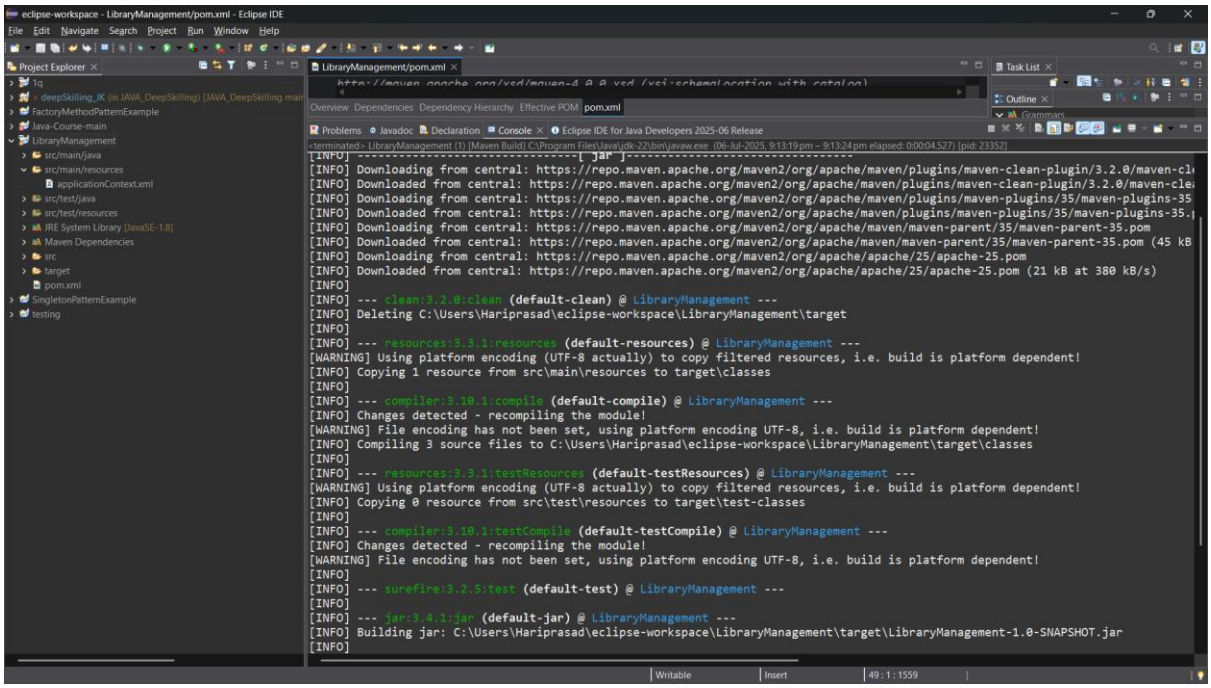

eclipse-workspace - LibraryManagement/src/main/java/com/library/MainApp.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer
applicationContext.xml
BookRepository.java
BookService.java
MainApp.java
1 package com.library;
2
3 import org.springframework.context.ApplicationContext;
4 import org.springframework.context.support.ClassPathXmlApplicationContext;
5 import com.library.service.BookService;
6
7 public class MainApp {
8 public static void main(String[] args) {
9 ApplicationContext context =
10 new ClassPathXmlApplicationContext("applicationContext.xml");
11
12 BookService service = context.getBean("bookService", BookService.class);
13 service.addBook("Das Capital");
14
15 ((ClassPathXmlApplicationContext) context).close();
16 }
17 }
18
Task List
Outline
com.library
MainApp
main(String[]) : void
Problems Javadoc Declaration Console Eclipse IDE for Java Developers 2025-06 Release
<terminated> MainApp [Java Application] C:\Program Files\Java\jdk-22\bin\javaw.exe (06-Jul-2025, 8:49:56 pm – 8:49:57 pm elapsed: 0:00:00.646) [pid: 14540]
BookService: Adding book - Das Capital
Saving book: Das Capital
Writable
Smart Insert
13 : 37 : 503

# OUTPUT


eclipse-workspace - LibraryManagement/src/main/java/com/library/MainApp.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer
1q
deepSkilling_JK (in JAVA_DeepSkilling) [JAVA_DeepSkilling main]
FactoryMethodPatternExample
Java-Course-main
LibraryManagement
src/main/java
com.library
MainApp.java
com.library.repository
BookRepository.java
com.library.service
BookService.java
src/main/resources
applicationContext.xml
src/test/java
src/test/resources
JRE System Library [JavaSE-1.8]
Maven Dependencies
src
target
pom.xml
SingletonPatternExample
testing
applicationContext.xml
BookRepository.java
BookService.java
MainApp.java
1 package com.library;
2
3 import org.springframework.context.ApplicationContext;
4 import org.springframework.context.support.ClassPathXmlApplicationContext;
5 import com.library.service.BookService;
6
Task List
Outline
com.library
MainApp
main(String[]) : void
Problems Javadoc Declaration Console Eclipse IDE for Java Developers 2025-06 Release
<terminated> MainApp [Java Application] C:\Program Files\Java\jdk-22\bin\javaw.exe (06-Jul-2025, 8:49:56 pm – 8:49:57 pm elapsed: 0:00:00.646) [pid: 14540]
BookService: Adding book - Das Capital
Saving book: Das Capital
Writable
Smart Insert
13 : 37 : 503

## Creating and Configuring a Maven Project




## Output