}

# Skilling Experiment-9

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## Solid Design Principles with loose coupling and strong cohesion

**Case Study:** The best book centre company has just purchased a computer for its new automated book inventory management system. You have been asked to program the new system. You are to write an application for the above which contains various classes:

**The class descriptions are as follows.**
1.Book Class: responsible for book details and book search.
2.Inventory View Class: responsible for checking the inventory.
3.Book Discount class: responsible for book discount
4.Book Delivery Class:  responsible for online and offline book delivery
5.Book Action Class: responsible book action.
use Java application but you can apply **SOLID** design principles on it.

**Code**:

```java
package naveen;
public class Book {
        String title;
        String author;
        String getTitle() {
                return title;
        }
        void setTitle(String title) {
                this.title = title;
        }
        String getAuthor() {
                return author;
        }
        void setAuthor(String author) {
                this.author = author;
        }

}
```

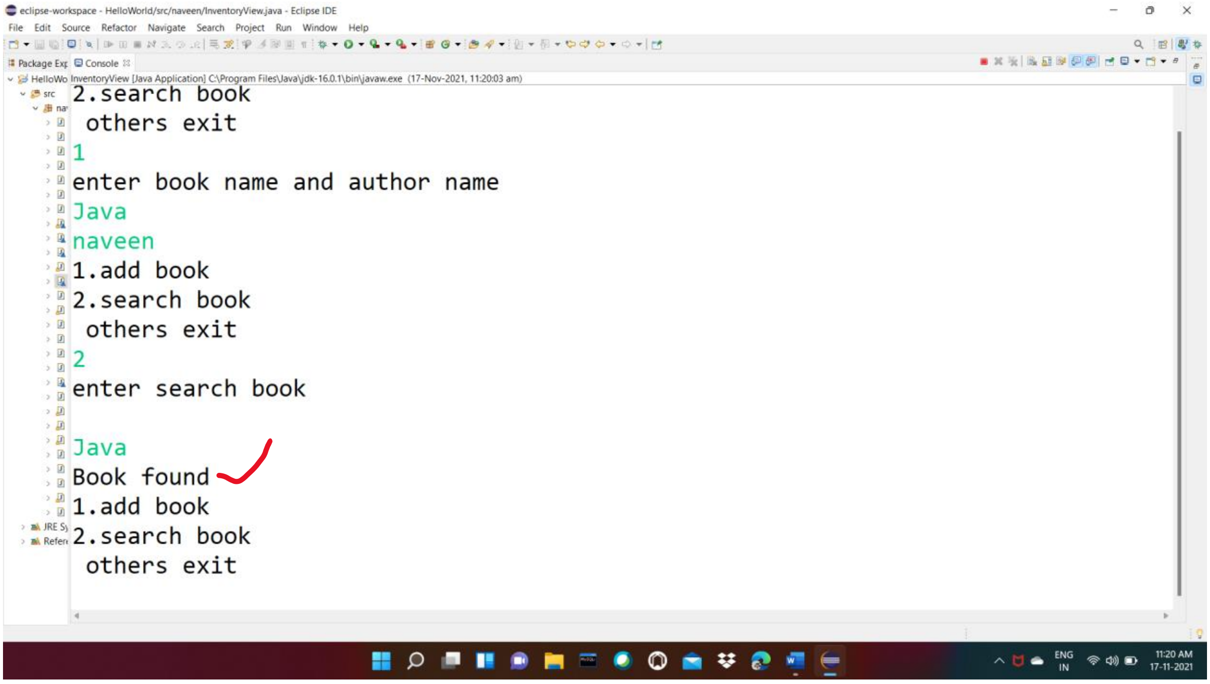
```
package naveen;
import java.util.*;
class InventoryView {
     Book book;
  static String searchbook;
        InventoryView(Book book) {
            this.book = book;
        }

        void searchBook(Book b) {
            if(b.getTitle()==searchbook)
                System.out.println("Book found");
            else
                System.out.println("Book is not found");
        }
        public static void  main(String[] args) {
            Scanner sc = new Scanner(System.in);
            Book b = new Book();
            InventoryView i = new InventoryView(b);
            boolean repeat = true;
            while(repeat)
            {
                System.out.println("1.add book\n2.search book\n
others exit");
                switch(sc.nextInt())
                {
                case 1:
                    System.out.println("enter book name and author
name");
                    b.setTitle(sc.next());
                    b.setAuthor(sc.next());
                    break;
                case 2:
                    System.out.println("enter search book\n");
                    searchbook=sc.next();
                    i.searchBook(b);
                    break;
                    default:
                    repeat=false;
                }}

            sc.close();}}
```

## ScreenShots:

## Book found:



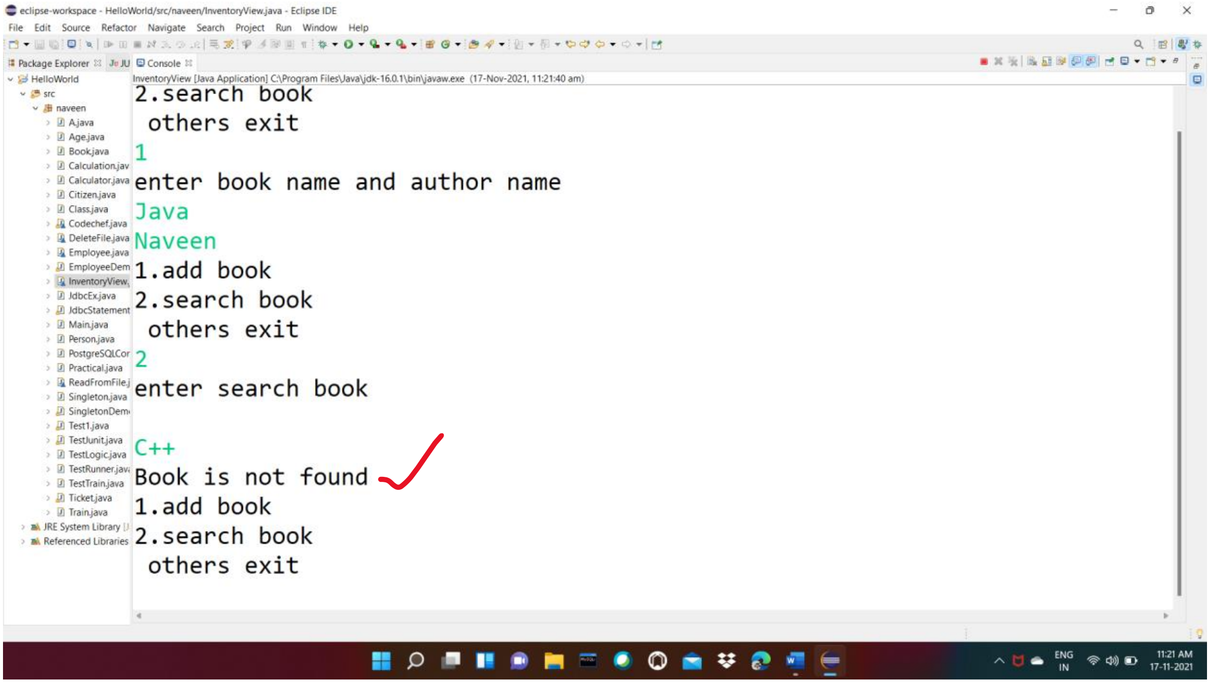
eclipse-workspace - HelloWorld/src/naveen/InventoryView.java - Eclipse IDE

InventoryView [Java Application] C:\Program Files\Java\jdk-16.0.1\bin\javaw.exe (17-Nov-2021, 11:20:03 am)

```
2.search book
 others exit
1
enter book name and author name
Java
naveen
1.add book
2.search book
 others exit
2
enter search book

Java
Book found
1.add book
2.search book
 others exit
```

## Book Not found:



eclipse-workspace - HelloWorld/src/naveen/InventoryView.java - Eclipse IDE

InventoryView [Java Application] C:\Program Files\Java\jdk-16.0.1\bin\javaw.exe (17-Nov-2021, 11:21:40 am)

```
2.search book
 others exit
1
enter book name and author name
Java
Naveen
1.add book
2.search book
 others exit
2
enter search book

C++
Book is not found
1.add book
2.search book
 others exit
```