```java
package edu.cpp.quiz1;

import java.util.List;

public abstract class Book implements Cloneable {
    protected String title;
    protected String author;
    protected List<String> chapters;

    public Book(String title, String author, List<String> chapters) {
        this.title = title;
        this.author = author;
        this.chapters = chapters;
    }

    public String getTitle() {
        return title;
    }

    public void setTitle(String title) {
        this.title = title;
    }

    public String getAuthor() {
        return author;
    }

    public void setAuthor(String author) {
        this.author = author;
    }

    public List<String> getChapters() {
        return chapters;
    }

    public void setChapters(List<String> chapters) {
        this.chapters = chapters;
    }

    @Override
    public String toString() {
        return "Book{" +
                "title='" + title + '\'' +
                ", author='" + author + '\'' +
                ", chapters=" + chapters +
                '}';
    }

    public abstract  Book clone();
}

```

```java
package edu.cpp.quiz1;

import java.util.ArrayList;
import java.util.List;

public class BookDeepCopy extends Book {

    public BookDeepCopy(String title, String author, List<String> chapters) {
        super(title, author, chapters);
    }

    @Override
    public BookDeepCopy clone() {
        List<String> chapters = new ArrayList<>(getChapters());
        return new BookDeepCopy(getTitle(), getAuthor(), chapters);
    }
}

```

```java
package edu.cpp.quiz1;

import java.util.ArrayList;
import java.util.List;

public class DeepCopyDriver {
    public static void main(String[] args) {
        // Part 3) Create a book with BookDeepCopy and then create a clone of the book.
        // Modify the chapters of the original book only and show the outputs of both books
        System.out.println("==========Book Deep Copy==========");
        List<String> deepChapters = new ArrayList<>();
        deepChapters.add("Introduction");
        deepChapters.add("How to write a deep Java program");
        BookDeepCopy originalDeep = new BookDeepCopy("Deep Copy Book", "Mr Peter",
deepChapters);
        BookDeepCopy copyDeep = originalDeep.clone();
        System.out.println("Original: " + originalDeep);
        System.out.println("Copy:     " + copyDeep);

        System.out.println("------After modification of original--------");
        originalDeep.getChapters().add("How to run a deep Java program");
        originalDeep.getChapters().set(0, "Introduction to deep copy");
        System.out.println("Original: " + originalDeep);
        System.out.println("Copy:     " + copyDeep);
    }
}

```

```java
package edu.cpp.quiz1;

import java.util.List;

public class BookShallowCopy extends Book {

    public BookShallowCopy(String title, String author, List<String> chapters) {
        super(title, author, chapters);
    }

    @Override
    public BookShallowCopy clone() {
        return new BookShallowCopy(getTitle(), getAuthor(), getChapters());
    }
}

```

```java
package edu.cpp.quiz1;

import java.util.ArrayList;
import java.util.List;

public class ShallowCopyDriver {
    public static void main(String[] args) {
        // Part 2) Create a book with BookShallowCopy and then create a clone of the book.
        // Modify the chapters of the original book only and show the outputs of both books
        System.out.println("==========Book Shallow Copy==========");
        List<String> shallowChapters = new ArrayList<>();
        shallowChapters.add("Introduction");
        shallowChapters.add("How to write a shallow Java program");
        BookShallowCopy originalShallow = new BookShallowCopy("Shallow Copy Book", "Mr John
", shallowChapters);
        BookShallowCopy copyShallow = originalShallow.clone();
        System.out.println("Original: " + originalShallow);
        System.out.println("Copy:     " + copyShallow);

        System.out.println("------After modification of original--------");
        originalShallow.getChapters().add("How to run a shallow Java program");
        originalShallow.getChapters().set(0, "Introduction to shallow copy");
        System.out.println("Original: " + originalShallow);
        System.out.println("Copy:     " + copyShallow);
    }
}

```