Lab program 3

```
import java.util.Scanner;

class Book {
    private String name;
    private String author;
    private double price;
    private int num_pages;
    public Book(String name, String author, double price, int num_pages) {
        this.name = name;
        this.author = author;
        this.price = price;
        this.num_pages = num_pages;
    }
    public String getName() {
        return name;
    }
    public String getAuthor() {
        return author;
    }
    public double getPrice() {
        return price;
    }
    public int getNumPages() {
        return num_pages;
    }
    public void setName(String name) {
        this.name = name;
    }
```

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    public void setAuthor(String author) {
        this.author = author;
    }
    public void setPrice(double price) {
        this.price = price;
    }
    public void setNumPages(int num_pages) {
        this.num_pages = num_pages;
    }
    public String toString() {
        return "Book Details:\n" +
               "  Name:     " + name + "\n" +
               "  Author:   " + author + "\n" +
               "  Price:    $" + String.format("%.2f", price) + "\n" +
               "  Pages:    " + num_pages;
    }
}
public class BookDemo {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.print("How many books do you want to create? ");
        int n = scanner.nextInt();
        scanner.nextLine();
        Book[] books = new Book[n];
        for (int i = 0; i < n; i++) {
            System.out.println("\n--- Enter Details for Book " + (i + 1) + " ---");
            System.out.print("Enter Name: ");
            String name = scanner.nextLine();
```

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            System.out.print("Enter Author: ");
            String author = scanner.nextLine();
            System.out.print("Enter Price: ");
            double price = scanner.nextDouble();
            System.out.print("Enter Number of Pages: ");
            int num_pages = scanner.nextInt();
            scanner.nextLine();
            books[i] = new Book(name, author, price, num_pages);
        }
        System.out.println("   Displaying All Book Details");
        for (int i = 0; i < books.length; i++) {
            System.out.println(books[i]);
        }
        scanner.close();
    }
}
```