#project2:

#Online book store:

Code:

```java
import java.util.ArrayList;
import java.util.List;
import java.util.Scanner;

class Book {
    private int id;
    private String title;
    private String author;
    private double price;

    public Book(int id, String title, String author, double price) {
        this.id = id;
        this.title = title;
        this.author = author;
        this.price = price;
    }

    public int getId() {
        return id;
    }

    public String getTitle() {
        return title;
    }

    public String getAuthor() {
        return author;
    }

    public double getPrice() {
        return price;
    }
}

class Bookstore {
    private List<Book> books;

    public Bookstore() {
        this.books = new ArrayList<>();
    }

    public void addBook(Book book) {
        books.add(book);
    }

    public void removeBook(int bookId) {
        books.removeIf(book -> book.getId() == bookId);
    }

    public List<Book> getBooks() {
        return books;
    }
}

public class OnlineBookstore {
```

```java
    private static final Bookstore bookstore = new Bookstore();
    private static final Scanner scanner = new Scanner(System.in);

    public static void main(String[] args) {
        boolean running = true;

        while (running) {
            System.out.println("1. Add Book");
            System.out.println("2. List Books");
            System.out.println("3. Remove Book");
            System.out.println("4. Exit");
            System.out.print("Enter your choice: ");

            int choice = scanner.nextInt();

            switch (choice) {
                case 1:
                    addBook();
                    break;
                case 2:
                    listBooks();
                    break;
                case 3:
                    removeBook();
                    break;
                case 4:
                    running = false;
                    break;
                default:
                    System.out.println("Invalid choice");
                    break;
            }
        }
    }

    private static void addBook() {
        System.out.print("Enter book ID: ");
        int id = scanner.nextInt();
        scanner.nextLine(); // Consume newline

        System.out.print("Enter book title: ");
        String title = scanner.nextLine();

        System.out.print("Enter author name: ");
        String author = scanner.nextLine();

        System.out.print("Enter book price: ");
        double price = scanner.nextDouble();

        Book newBook = new Book(id, title, author, price);
        bookstore.addBook(newBook);
        System.out.println("Book added successfully!");
    }

    private static void listBooks() {
        List<Book> books = bookstore.getBooks();
        if (books.isEmpty()) {
            System.out.println("No books available");
        } else {
            System.out.println("List of Books:");
            for (Book book : books) {
```

```java
                System.out.println(book.getId() + " - " + book.getTitle() +
" by " + book.getAuthor() + " - $" + book.getPrice());
            }
        }
    }

    private static void removeBook() {
        System.out.print("Enter book ID to remove: ");
        int id = scanner.nextInt();
        bookstore.removeBook(id);
        System.out.println("Book removed successfully!");
    }
}
```

#output:

C:\Users\Vaibhav\.jdks\openjdk-20.0.2\bin\java.exe "-
javaagent:C:\Users\Vaibhav\AppData\Local\JetBrains\IntelliJ IDEA Community Edition
2023.2\lib\idea_rt.jar=49850:C:\Users\Vaibhav\AppData\Local\JetBrains\IntelliJ IDEA Community
Edition 2023.2\bin" -Dfile.encoding=UTF-8 -Dsun.stdout.encoding=UTF-8 -
Dsun.stderr.encoding=UTF-8 -classpath
C:\Users\Vaibhav\IdeaProjects\capable\out\production\capable OnlineBookstore

1. Add Book

2. List Books

3. Remove Book

4. Exit

Enter your choice: 1

Enter book ID: 001

Enter book title: bhagawatgita

Enter author name: maharishi

Enter book price: 250

Book added successfully!

1. Add Book

2. List Books

3. Remove Book

4. Exit

Enter your choice: 1

Enter book ID: 002

Enter book title: psycology_of_money

Enter author name: morgan_hausel

Enter book price: 400

Book added successfully!

1. Add Book

2. List Books

3. Remove Book

4. Exit

Enter your choice: 2

List of Books:

1 - bhagawatgita by maharishi - $250.0

2 - psycology_of_money by morgan_hausel - $400.0

1. Add Book

2. List Books

3. Remove Book

4. Exit

Enter your choice: 3

Enter book ID to remove: 002

Book removed successfully!

1. Add Book

2. List Books

3. Remove Book

4. Exit

Enter your choice: 4

Process finished with exit code 0