Use an ArrayList to store the list of books. Each book should have attributes such as title, author, ISBN, and price.Implement functionalities to add new books, remove existing books, and display all books in the library.

```
│ Library.java > ધ Library > 🛇 main(String[])
     import java.util.ArrayList;
import java.util.Scanner;
     class Book {
         private String title;
6
         private String author;
         private String isbn;
 7
8
         private double price;
9
10
         public Book(String title, String author, String isbn, double price) {
              this.title = title;
11
12
              this.author = author;
13
              this.isbn = isbn;
              this.price = price;
14
15
16
         public String getTitle() {
17
              return title;
18
19
20
         public String getAuthor() {
21
22
              return author;
23
24
25
          public String getIsbn() {
             return isbn;
26
27
28
         public double getPrice() {
29
30
              return price;
31
32
33
         @Override
         public String toString() {
34
              return "Title: " + title + ", Author: " + author + ", ISBN: " + isbn + ", Price: $" + price;
35
36
37
38
      public class Library {
```

```
40
         private ArrayList<Book> books;
41
42
         public Library() {
43
             books = new ArrayList<>();
44
45
46
         public void addBook(Book book) {
47
             books.add(book);
             System.out.println("Book added: " + book);
48
49
50
51
         public void removeBook(String isbn) {
             Book bookToRemove = null;
52
             for (Book book : books) {
53
54
                 if (book.getIsbn().equals(isbn)) {
55
                     bookToRemove = book;
56
                      break;
57
58
             if (bookToRemove != null) {
59
                 books.remove(bookToRemove);
60
                 System.out.println("Book removed: " + bookToRemove);
61
62
             } else {
                 System.out.println("Book with ISBN " + isbn + " not found.");
63
64
65
66
         public void displayBooks() {
67
             if (books.isEmpty()) {
68
69
                 System.out.println(x:"No books in the library.");
70
             } else {
                 System.out.println(x:"Books in the library:");
71
72
                 for (Book book : books) {
73
                     System.out.println(book);
74
75
76
```

```
public static void main(String[] args) {
 78
 79
              Library library = new Library();
 80
              Scanner scanner = new Scanner(System.in);
 81
              while (true) {
 82
 83
                  System.out.println(x:"Library Menu:");
 84
                  System.out.println(x:"1. Add Book");
                  System.out.println(x:"2. Remove Book");
 85
 86
                  System.out.println(x:"3. Display Books");
                  System.out.println(x:"4. Exit");
 87
 88
                  System.out.print(s:"Choose an option: ");
                  int choice = scanner.nextInt();
 89
 90
                  scanner.nextLine(); // Consume newline
 91
 92
                  switch (choice) {
 93
 94
                          System.out.print(s:"Enter title: ");
                          String title = scanner.nextLine();
 95
                           System.out.print(s:"Enter author: ");
 96
                           String author = scanner.nextLine();
 97
 98
                           System.out.print(s:"Enter ISBN: ");
                          String isbn = scanner.nextLine();
 99
100
                           System.out.print(s:"Enter price: ");
                          double price = scanner.nextDouble();
101
102
                           scanner.nextLine(); // Consume newline
                          Book book = new Book(title, author, isbn, price);
103
104
                           library.addBook(book);
105
                          break;
106
                      case 2:
                           System.out.print(s:"Enter ISBN of the book to remove: ");
107
108
                           String isbnToRemove = scanner.nextLine();
                           library.removeBook(isbnToRemove);
109
110
                          break:
111
                      case 3:
112
                           library.displayBooks();
113
                          break;
114
                      case 4:
115
                           System.out.println(x:"Exiting...");
116
                           scanner.close();
```

```
return;
117
118
                          default:
                              System.out.println(x:"Invalid choice. Please try again.");
119
120
121
122
123
PROBLEMS (1)
               OUTPUT
                         DEBUG CONSOLE
                                         TERMINAL
                                                     PORTS
PS C:\Users\SWETHA BENNY\Documents\javaProject> javac Library.java
>> java Library
Library Menu:
1. Add Book

    Remove Book
    Display Books

4. Exit
Choose an option: 1
Enter title: light in the dark
Enter author: ravi
Enter ISBN: 6579
Enter price: 356
Book added: Title: light in the dark, Author: ravi, ISBN: 6579, Price: $356.0
Library Menu:
1. Add Book
2. Remove Book
3. Display Books
4. Exit
Choose an option: 4
Exiting...
```