Use a HashMap to map ISBN numbers to books for quick lookup. Implement functionalities to add, update, and retrieve book details using ISBN.

```java
BookLibrary.java > ...
1   import java.util.HashMap;
2   import java.util.Scanner;
3
4   class Book {
5       private String title;
6       private String author;
7       private String isbn;
8       private double price;
9
10      public Book(String title, String author, String isbn, double price) {
11          this.title = title;
12          this.author = author;
13          this.isbn = isbn;
14          this.price = price;
15      }
16
17      public String getTitle() {
18          return title;
19      }
20
21      public String getAuthor() {
22          return author;
23      }
24
25      public String getIsbn() {
26          return isbn;
27      }
28
29      public double getPrice() {
30          return price;
31      }
32
33      public void setTitle(String title) {
34          this.title = title;
35      }
36
37      public void setAuthor(String author) {
38          this.author = author;
39      }
40
41      public void setPrice(double price) {
42          this.price = price;
43      }
44
45      @Override
46      public String toString() {
```

```java
46        public String toString() {
47            return "Title: " + title + ", Author: " + author + ", ISBN: " + isbn
48            + ", Price: $" + price;
49        }
50    }
51
52    public class BookLibrary {
53        private HashMap<String, Book> books;
54
55        public BookLibrary() {
56            books = new HashMap<>();
57        }
58
59        public void addBook(Book book) {
60            books.put(book.getIsbn(), book);
61            System.out.println("Book added: " + book);
62        }
63
64        public void updateBook(String isbn, String title, String author, double price) {
65            Book book = books.get(isbn);
66            if (book != null) {
67                book.setTitle(title);
68                book.setAuthor(author);
69                book.setPrice(price);
70                System.out.println("Book updated: " + book);
71            } else {
72                System.out.println("Book with ISBN " + isbn + " not found.");
73            }
74        }
75
76        public void getBook(String isbn) {
77            Book book = books.get(isbn);
78            if (book != null) {
79                System.out.println("Book details: " + book);
80            } else {
81                System.out.println("Book with ISBN " + isbn + " not found.");
82            }
83        }
84
       Run | Debug
85        public static void main(String[] args) {
86            BookLibrary library = new BookLibrary();
87            Scanner scanner = new Scanner(System.in);
88
89            while (true) {
90                System.out.println(x:"Library Menu:");
```

```java
            System.out.println(x:"1. Add Book");
            System.out.println(x:"2. Update Book");
            System.out.println(x:"3. Get Book Details");
            System.out.println(x:"4. Exit");
            System.out.print(s:"Choose an option: ");
            int choice = scanner.nextInt();
            scanner.nextLine(); // Consume newline

            switch (choice) {
                case 1:
                    System.out.print(s:"Enter title: ");
                    String title = scanner.nextLine();
                    System.out.print(s:"Enter author: ");
                    String author = scanner.nextLine();
                    System.out.print(s:"Enter ISBN: ");
                    String isbn = scanner.nextLine();
                    System.out.print(s:"Enter price: ");
                    double price = scanner.nextDouble();
                    scanner.nextLine(); // Consume newline
                    Book book = new Book(title, author, isbn, price);
                    library.addBook(book);
                    break;
                case 2:
                    System.out.print(s:"Enter ISBN of the book to update: ");
                    String isbnToUpdate = scanner.nextLine();
                    System.out.print(s:"Enter new title: ");
                    String newTitle = scanner.nextLine();
                    System.out.print(s:"Enter new author: ");
                    String newAuthor = scanner.nextLine();
                    System.out.print(s:"Enter new price: ");
                    double newPrice = scanner.nextDouble();
                    scanner.nextLine(); // Consume newline
                    library.updateBook(isbnToUpdate, newTitle, newAuthor, newPrice);
                    break;
                case 3:
                    System.out.print(s:"Enter ISBN of the book to get details: ");
                    String isbnToGet = scanner.nextLine();
                    library.getBook(isbnToGet);
                    break;
                case 4:
                    System.out.println(x:"Exiting...");
                    scanner.close();
                    return;
                default:
                    System.out.println(x:"Invalid choice. Please try again.");
```

```
PS C:\Users\SWETHA BENNY\Documents\javaProject> javac BookLibrary.java
>> java BookLibrary
>>
Library Menu:
1. Add Book
2. Update Book
3. Get Book Details
4. Exit
Choose an option: 1
Enter title: rain
Enter author: ram
Enter ISBN: 56790
Enter price: 499
Book added: Title: rain, Author: ram, ISBN: 56790, Price: $499.0
Library Menu:
1. Add Book
2. Update Book
3. Get Book Details
4. Exit
Choose an option: 2
Enter ISBN of the book to update: 56790
Enter new title: rain
Enter new author: ram n
Enter new price: 499
Book updated: Title: rain, Author: ram n, ISBN: 56790, Price: $499.0
Library Menu:
1. Add Book
2. Update Book
3. Get Book Details
4. Exit
Choose an option: 3
Enter ISBN of the book to get details: 56790
Book details: Title: rain, Author: ram n, ISBN: 56790, Price: $499.0
Library Menu:
1. Add Book
2. Update Book
3. Get Book Details
4. Exit
Book details: Title: rain, Author: ram n, ISBN: 56790, Price: $499.0
Library Menu:
1. Add Book
2. Update Book
3. Get Book Details
4. Exit
```