ONLINE BOOKSTORE APPLICATION

```
import java.util.ArrayList;
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;
    }

    @Override
```

```
    public String toString() {
        return "Book{" +
                "id=" + id +
                ", title='" + title + '\'' +
                ", author='" + author + '\'' +
                ", price=" + price +
                '}';
    }
}

public class OnlineBookStore {
    private ArrayList<Book> books = new ArrayList<>();

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

    public void viewAllBooks() {
        for (Book book : books) {
            System.out.println(book);
        }
    }

    public Book searchBookById(int id) {
        for (Book book : books) {
            if (book.getId() == id) {
                return book;
            }
        }
        return null;
    }

    public void purchaseBook(int id) {
        Book book = searchBookById(id);
```

```
    if (book != null) {
        System.out.println("Purchasing book: " + book);
        books.remove(book);
    } else {
        System.out.println("Book not found.");
    }
}

public static void main(String[] args) {
    OnlineBookStore bookStore = new OnlineBookStore();
    Scanner scanner = new Scanner(System.in);
    boolean exit = false;

    while (!exit) {
        System.out.println("1. Add Book");
        System.out.println("2. View All Books");
        System.out.println("3. Search Book by ID");
        System.out.println("4. Purchase Book");
        System.out.println("5. Exit");
        System.out.print("Choose an option: ");
        int choice = scanner.nextInt();

        switch (choice) {
            case 1:
                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 book author: ");
                String author = scanner.nextLine();
                System.out.print("Enter book price: ");
                double price = scanner.nextDouble();
                Book book = new Book(id, title, author, price);
```

```
                bookStore.addBook(book);
                break;
            case 2:
                bookStore.viewAllBooks();
                break;
            case 3:
                System.out.print("Enter book ID to search: ");
                int searchId = scanner.nextInt();
                Book foundBook = bookStore.searchBookById(searchId);
                if (foundBook != null) {
                    System.out.println("Book found: " + foundBook);
                } else {
                    System.out.println("Book not found.");
                }
                break;
            case 4:
                System.out.print("Enter book ID to purchase: ");
                int purchaseId = scanner.nextInt();
                bookStore.purchaseBook(purchaseId);
                break;
            case 5:
                exit = true;
                break;
            default:
                System.out.println("Invalid choice. Please try again.");
        }
    }
    scanner.close();
  }
}
```