Problem 1 Product Class

```
Product.java
 9              this.id = id;
10              this.name = name;
11              this.price = price;
12          }
13
14 -     public void displayProduct() {
15              System.out.println("Product details: ");
16              System.out.println("Product ID: " + id);
17              System.out.println("Product Name: " + name);
18              System.out.println("Product Price: $" + price);
19          }
20
```

```
                                              input
Enter Product ID: 9468
Enter Product Name: laptop
Enter Product Price: 50000
Product details:
Product ID: 9468
Product Name: laptop
Product Price: $50000.0


...Program finished with exit code 0
Press ENTER to exit console.
```

Problem 2 Library Management System

```
LibraryManageme...
 1 - import java.util.Scanner;
 2
 3 - class Book {
 4       protected String title;
 5       protected String author;
 6
 7 -     public Book(String title, String author) {
 8           this.title = title;
 9           this.author = author;
10       }
11
12 -     public void displayDetails() {
13           System.out.println("Title: " + title);
14           System.out.println("Author: " + author);
15       }
16  }
17
18 - class Fiction extends Book {
19 -     public Fiction(String title, String author) {
20           super(title, author);
21       }
22
```

```
                                              input
Enter book title: Too good to be true
Enter book author: Prajikta Koli
Enter book type (Fiction/Non-Fiction): Fiction
Title: Too good to be true
Author: Prajikta Koli
Category: Fiction


...Program finished with exit code 0
Press ENTER to exit console.
```

Problem 3 Student Information System

```
44  }
45
46  public class StudentInformationSystem {
47      public static void main(String[] args) {
48          Scanner scanner = new Scanner(System.in);
49
50          System.out.print("Enter Student Name: ");
51          String studentName = scanner.nextLine();
52          System.out.print("Enter Student Age: ");
53          int studentAge = scanner.nextInt();
54          System.out.print("Enter Roll Number: ");
55          int rollNumber = scanner.nextInt();
56          scanner.nextLine();
57
58          Student student = new Student(studentName, studentAge, rollNumber);
59
```

input

```
Enter Student Name: Ananya
Enter Student Age: 21
Enter Roll Number: 14382
Enter Teacher Name: Mayank Sir
Enter Teacher Age: 26
Enter Subject: Java

Student Details:
Student Name: Ananya
Age: 21
Roll Number: 14382

Teacher Details:
Teacher Name: Mayank Sir
Age: 26
Subject: Java
```