

Book:

```
import java.util.Scanner;

class Book {
    String name, author;
    double price;
    int noPage;
    Book() {}
    Book(String name, String author, double price, int noPage) {
        this.name = name;
        this.author = author;
        this.price = price;
        this.noPage = noPage;
    }
    void setDetails() {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter name of book: ");
        name = sc.nextLine();
        System.out.println("Enter author name: ");
        author = sc.nextLine();
        System.out.println("Enter price of book: ");
        price = sc.nextDouble();
        System.out.println("Enter number of pages: ");
        noPage = sc.nextInt();
    }
    void getDetails() {
        System.out.println("Name of book: " + name);
        System.out.println("Author: " + author);
        System.out.println("Price: " + price);
        System.out.println("Number of pages: " + noPage);
    }
    public String toString() {
```

```

        return "Book name: " + name + "\n" + "Author: " + author + "\n" + "Price: " + price + "\n" +
"Number of pages: " + noPage + "\n";
    }
}

class MyBook {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter number of books: ");
        int n = sc.nextInt();
        sc.nextLine();
        Book[] books = new Book[n];
        for (int i = 0; i < n; i++) {
            books[i] = new Book();
            System.out.println("Enter details for book " + (i + 1));
            books[i].setDetails();
            books[i].getDetails();
        }
        System.out.println("All book details: ");
        for (Book book : books) {
            System.out.println(book);
        }
    }
}

```

```

C:\Users\Admin\Documents\23cs310>java MyBook
Enter number of books:
2
Enter details for book 1
Enter name of book:
HarryPotter
Enter author name:
JK Rowling
Enter price of book:
500.75
Enter number of pages:
350
Name of book: HarryPotter
Author: JK Rowling
Price: 500.75
Number of pages: 350
Enter details for book 2
Enter name of book:
Magic of Lost Lamp
Enter author name:
Sudha Murthy
Enter price of book:
650
Enter number of pages:
400
Name of book: Magic of Lost Lamp
Author: Sudha Murthy
Price: 650.0
Number of pages: 400
All book details:
Book name: HarryPotter
Author: JK Rowling
Price: 500.75
Number of pages: 350

Book name: Magic of Lost Lamp
Author: Sudha Murthy
Price: 650.0
Number of pages: 400

```

### Program III

Q. WAP to create a class Book which contains 4 members: name, author, price, num-pages. Include a constructor to set values for members. Include a toString() method that could display complete details of the book. Create n Book objects.

```

import java.util.Scanner;

class Book {
    String name, author;
    double price;
    int nPage;
    Book() {}
    Book(String name, String author, double price, int nPage) {
        this.name = name;
        this.author = author;
        this.price = price;
        this.nPage = nPage;
    }

    void getDetails() {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter name of book:");
        name = sc.nextLine();
        System.out.println("Enter name of author:");
        author = sc.nextLine();
        System.out.println("Enter price of book:");
        price = sc.nextDouble();
        System.out.println("Enter no of Pages:");
        nPage = sc.nextInt();
    }
}

```

```

void getDetails() {
    S.O.p("Name of book " + name);
    S.O.p("Author " + author);
    S.O.p("Price " + price);
    S.O.p("Number of pages " + nPage);
}

public String toString() {
    return "Book name: " + name + "\n" +
        "Author: " + author + "\n" + "Price: " + price +
        "\n" + "Number of Pages " + nPage + "\n";
}
}

```

```

class MyBook {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        S.O.p("Enter no of books:");
        int n = sc.nextInt();
        sc.nextLine();
        Book[] books = new Book[n];
        for (int i = 0; i < n; i++) {
            books[i] = new Book();
            S.O.p("Enter details for book " + (i+1));
            books[i].getDetails();
            books[i].toString();
        }
        S.O.p("All book details:");
        for (Book book : books) {
            S.O.p(book);
        }
    }
}

```

### Output

```

Enter no of books
2
Enter details for book 1
Enter name of book: HarryPotter
Enter author name: JK Rowling
Enter price: 500.75
Enter no pages: 350

Enter details for book 2
Enter name of book: Magic of Lost Lamp
Enter author name: Sudha Murthy
Enter price: 650
Enter no pages: 400

```

```

Book name - HarryPotter
Author - JK Rowling
Price - 500.75
NPage - 350

```

```

Book name - Magic of Lost Lamp
Author - Sudha Murthy
Price - 650
NPage - 400

```