

```

import java.util.Scanner;

class Book {
    String name, author;
    double price;
    int num_pages;

    // Constructor
    Book(String name, String author, double price, int num_pages) {
        this.name = name;
        this.author = author;
        this.price = price;
        this.num_pages = num_pages;
    }

    void setDetails() {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the name of the book:");
        name = sc.nextLine();
        System.out.println("Enter name of the Author: ");
        author = sc.nextLine();
        System.out.println("Enter price of the book: ");
        price = sc.nextDouble();
        System.out.println("Enter the number of pages: ");
        num_pages = sc.nextInt();
    }

    void getDetails() {
        System.out.println("Name of Book: " + name);
        System.out.println("Name of Author: " + author);
        System.out.println("Price: " + price);
        System.out.println("Number of Pages: " + num_pages);
    }

    String Display() {
        return "Book Name: " + name + ", Author: " + author + ", Price: " + price + ", No. of Pages: "
+ num_pages;
    }
}

class Library {

```

```
public static void main(String[] args) {  
    Scanner sc = new Scanner(System.in);  
    System.out.println("Enter the 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("", "", 0, 0);  
        books[i].setDetails();  
    }  
    for (int i = 0; i < n; i++) {  
        books[i].getDetails();  
    }  
}
```

Enter the number of books:

2

Enter the name of the book:

Charlie and the Chocolate Factory

Enter name of the Author:

Roald Dahl

Enter price of the book:

450

Enter the number of pages:

200

Enter the name of the book:

Data Structures

Enter name of the Author:

Remma Thareja

Enter price of the book:

260

Enter the number of pages:

450

Name of Book: Charlie and the Chocolate Factory

Name of Author: Roald Dahl

Price: 450.0

Number of Pages: 200

Name of Book: Data Structures

Name of Author: Remma Thareja

Price: 260.0

Number of Pages: 450

Lab Program - 3

Q. Create class Book which contains four members = name, author, price, num, pages. Include a constructor to set the values for the members. Include methods to set and get details of the objects. Include a string () method that could display the complete details of the books. Develop a program to create n book objects.

→

class Book {

String name, author;

double price;

int num-pages;

Book (String name, String author, float price, int num-pages) {

this.name = name;

this.author = author;

this.price = price;

this.num-pages = num-pages;

}

//_

```
public void set Details () {
```

```
    Scanner sc = new Scanner (System.in);
```

```
    System.out.println ("Enter the  
    name of the book:");
```

```
    name = sc.nextLine();
```

```
    System.out.println ("Enter the name  
    of the author:");
```

```
    author = sc.nextLine();
```

```
    System.out.println ("Enter price of  
    the book:");
```

```
    price = sc.nextFloat();
```

```
    System.out.println ("Enter the number  
    of pages:");
```

```
    numofPages = sc.nextInt();
```

```
public void get Details () {
```

```
    System.out.println ("Name of Book: " +  
    name);
```

```
    System.out.println ("Name of Author: " +  
    author);
```

```
    System.out.println ("Price: " + price);
```

```
    System.out.println ("Number of pages: " +  
    num - pages);
```

```
public String toString () {
```

```
    return "Book Name" + name +
```

```
    "Author: " + author + "Price: " +
```

```
    price + "No. of pages: " + num
```

```
    num - pages;
```

```
}
```



```

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

```

Output :-

Enter the number of books :- 1

Enter the name of the book : Charlie and the Chocolate Factory.

Enter ~~the~~ name of the author : Roald Dahl.

Enter price of the books : 450

Enter the number of pages : 200

Name of the book : Charlie and the Chocolate factory.

Name of Author : ~~Roald~~ Roald Dahl

Price : 450.0

Number of pages : 200