```
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 Book. 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 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.nextFloat();
        System.out.println ("Enter the number of pages:");
        numofPages = sc.nextInt();
    public 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);
```

```
    public String toString () {
        return "Book Name" + name + "Author:" + author +
               "Price:" + price + "No. of Pages:" + num_pages.:
    }
}
public class Lab {
    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 name of the Author: Roald Dahl

Enter price of the Book: 450

Enter the number of pages: 200

Name of the Book: Charlie and the Chocolate factory

Name of Author: Roald Dahl

Price: 450.0

Number of Pages: 200

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