Lab Program 3

Create a 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 the details of the objects. Include a toString( ) method that could display the complete details of the book. Develop a Java program to create n book objects.

Source Code:

```
import java.util.*;

class book{
String name;
String author;
double price;
int pages;
Scanner sc= new Scanner(System.in);
book(){
name="";
author="";
price=0.0;
pages=0;
}

void set(){
System.out.println("Enter name of the book");
name=sc.next();
System.out.println("Enter name of the author");
```

```java
author=sc.next();

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

price=sc.nextDouble();

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

pages=sc.nextInt();

}




//tostring() is an inbuilt funtion in java and helps us to print values with much ease
//you dont have to call it when you use println it automatically goes there


public String toString()

{

String s="Name of the book is "+name+" and it is written by "+author+". The book costs "+price+" and has "+ pages+" pages";

return s;

}

}




class bookmain{

public static void main(String args[]){

Scanner sc= new Scanner(System.in);

System.out.println("Enter the number of books");

int n;

n=sc.nextInt();
```

```
book b[]=new book[n]; //this is how you create an array of class

for(int i=0;i<n;i++){

System.out.println("Enter details of book "+(i+1));

b[i]=new book();

b[i].set();

}

for(int i=0;i<n;i++){

System.out.println(b[i]);

}

}

}
```
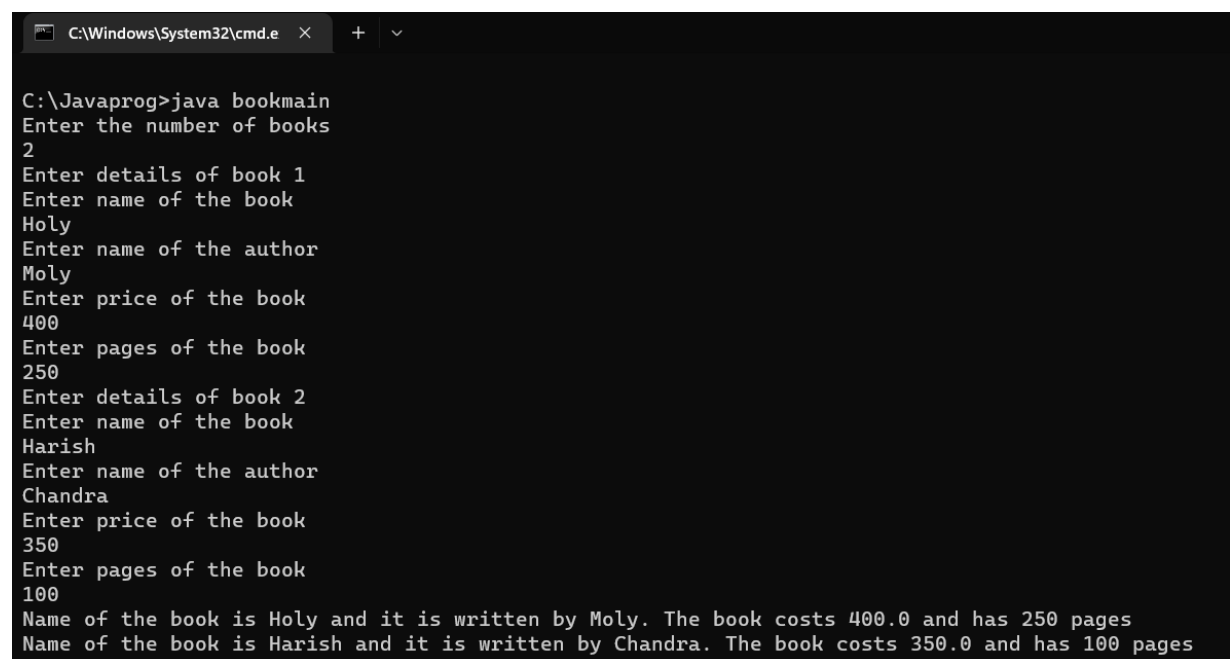
Output:


```
C:\Javaprog>java bookmain
Enter the number of books
2
Enter details of book 1
Enter name of the book
Holy
Enter name of the author
Moly
Enter price of the book
400
Enter pages of the book
250
Enter details of book 2
Enter name of the book
Harish
Enter name of the author
Chandra
Enter price of the book
350
Enter pages of the book
100
Name of the book is Holy and it is written by Moly. The book costs 400.0 and has 250 pages
Name of the book is Harish and it is written by Chandra. The book costs 350.0 and has 100 pages
```