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.

```java
import java.util.Scanner;
class Book
{
    String name, author;
    double price;
    int num_pages;
    Book ()
    {
        name = " ";  author = " ";
        price = 0.0;  num-pages = 0;
    }
    void set ()
    {
        Scanner s= new Scanner(System.in);
        System.out.println ( "Enter the name of the book:");
        name = s.nextLine ();
        System.out.println ("Enter the author of the book: ");
        author = s.nextLine();
        System.out.println ( "Enter the price of the book:");
        price = s.nextDouble();
```

```java
            System.out.println("Enter the number of pages :");
            num_pages = s.nextInt();
    }

    public String toString()
    {
        return ("Name : "+ name + "\n Author: "+ author +
                "\n Price: "+ price +"\n Number of pages :"+
                num_pages + "\n");
    }
}

class Book_main
{
    public static void main(String x[])
    {
        Scanner s= new Scanner(System.in);
        System.out.println("Enter the number of books");
        int n= s.nextInt();
        Book books[] = new Book[n];
        for(int i=0; i<n; i++)
        {
            books[i]= new Book();
            books[i].input();
            System.out.println("Book Details :\n");
            System.out.println(books[i].get());
        }
    }
}
```

Output

Enter the number of books : 2

Enter the name of the book: Gulmohar

Enter the author of the book : Mohan

Enter the price of the book: 350.0

Enter the number of pages : 200

Book Details:

Name : Gulmohar
Author : Mohan
Price : 350
Number of pages: 200

Enter the name of the book : Treasure Trove

Enter the author of the book : Roald Dahl

Enter the price of the book : 200.0

Enter the number of pages : 99

Book Details :

Name : Treasure Trove
Author : Roald Dahl
Price : 200.0
Number of pages : 99

```
C:\Users\bmsce\Desktop\Aryan\week3>javac Lab3.java

C:\Users\bmsce\Desktop\Aryan\week3>java Lab3
Enter the no. of books:
2
Enter the name of the book:
Gulmohar
Enter the author of the book:
Mohan
Enter the price of the book:
350
Enter the number of pages:
200
Book details:

Name:Gulmohar
Author:Mohan
Price:350.0
Number of pages:200
Enter the name of the book:
Treasure Trove
Enter the author of the book:
Roald Dahl
Enter the price of the book:
200
Enter the number of pages:
99
Book details:

Name:Treasure Trove
Author:Roald Dahl
Price:200.0
Number of pages:99

C:\Users\bmsce\Desktop\Aryan\week3>
```