

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

### PROGRAM:

```
import java.util.Scanner;

class Book
{
    private String book_name;
    private String author;
    private double price;
    private int no_of_pages;
    Scanner s = new Scanner(System.in);

    public Book() {
        this.book_name = "";
        this.author = "";
        this.price = 0;
        this.no_of_pages = 0;
    }

    void getdetails(){
        System.out.print("\nEnter book name:");
        book_name = s.nextLine();
        System.out.print("Enter author's name:");
        author = s.nextLine();
        System.out.print("Enter price of book:");
        price = s.nextDouble();
        System.out.print("Enter the number of pages of book:");
        no_of_pages = s.nextInt();
        s.nextLine();
    }
}
```

```

public String toString()
{
    return ("-----BOOK DETAILS-----\nBook name:" + book_name + "\n" + "Author:" + author + "\n" +
"Price:" + price + "\n" + "Number of Pages:" + no_of_pages + "\n");
}
}

```

```

public class Main {
    public static void main(String args[]) {
        int n,i=0;

        Scanner sc = new Scanner(System.in);

        System.out.print("Enter the number of books:");
        n = sc.nextInt();
        sc.nextLine();
        Book [] b = new Book[n];
        for( i=0;i<n;i++) {
            System.out.print("Enter the details of book " + (i+1));
            b[i] = new Book();
            b[i].getdetails();
        }
        for(i=0;i<n;i++) {
            System.out.println(b[i]);
        }
    }
}

```

## OUTPUT:

```
Enter the number of books:2
Enter the details of book 1
Enter book name:DS
Enter author's name:SHAMSUNDAR
Enter price of book:236
Enter the number of pages of book:1245
Enter the details of book 2
Enter book name:OOJ
Enter author's name:KALPATARU
Enter price of book:562
Enter the number of pages of book:889
-----BOOK DETAILS-----
Book name:DS
Author:SHAMSUNDAR
Price:236.0
Number of Pages:1245

-----BOOK DETAILS-----
Book name:OOJ
Author:KALPATARU
Price:562.0
Number of Pages:889
```