

LAB PROGRAM:3

Create a class book which contains four members: name, author, price, num-pages. Include a constructor to set 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 Java program to create n book objects.

```
→ import java.util.Scanner;
```

```
class Book
```

```
{
```

```
    private String book-name;
```

```
    private String author;
```

```
    private double price;
```

```
    private int no-of-pages;
```

```
    public book (String book-name, string author, double price,  
                int no-of-pages)
```

```
{
```

```
    this.book-name = book-name;
```

```
    this.author = author;
```

```
    this.price = price;
```

```
    this.no-of-pages = no-of-pages;
```

```
}
```

```
    public String toString()
```

```
{
```

```
    return ("----- BOOK DETAILS ----- \nBook name :" + book-  
           "+ "\n" + "Author:" + author + "\n" + "Price:" + price + "\n" + "Num-  
           Pages:" + no-of-pages + "\n" + "-----");
```

```
}
```

```
}

public class MainB {
    public static void main (String args [])
    {
        String book-name;
        String author;
        int no-of-pages;
        double price;

        Scanner sc = new Scanner (System.in);
        int n;
        System.out.print ("Enter the no. of books : ");
        n = sc.nextInt ();
        sc.nextLine ();
        Book [] b = new Book [n];
        for (int i = 0; i < n; i++)
        {
            System.out.print ("Enter book name : ");
            book-name = sc.nextLine ();
            System.out.print ("Enter author's name : ");
            author = sc.nextLine ();
            System.out.print ("Enter price of book : ");
            price = sc.nextDouble ();
            System.out.print ("Enter the no. of pages of book : ");
            no-of-pages = sc.nextInt ();
            sc.nextLine ();
            b[i] = new Book (book-name, author, price, no-of-pages);
            System.out.println (b[i]);
        }
    }
}
```

Mainb - Notepad
File Edit Format View Help

```
import java.util.Scanner;

class Book {
    private String book_name;
    private String author;
    private double price;
    private int no_of_pages;

    public Book(String book_name, String author, double price, int no_of_pages) {
        this.book_name = book_name;
        this.author = author;
        this.price = price;
        this.no_of_pages = no_of_pages;
    }

    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 Mainb {
    public static void main(String args[]) {
        String book_name;
        String author;
        int no_of_pages;
        double price;

        Scanner sc = new Scanner(System.in);
        int n;
        System.out.print("Enter the number of books: ");
        n = sc.nextInt();
        sc.nextLine();
        Book [] b = new Book[n];
        for(int i=0;i<n;i++) {
            System.out.print("Enter book name: ");
        }
    }
}
```



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

public class Mainb{
    public static void main(String args[])
    {
        String book_name;
        String author;
        int no_of_pages;
        double price;

        Scanner sc = new Scanner(System.in);
        int n;
        System.out.print("Enter the number of books:");
        n = sc.nextInt();
        sc.nextLine();
        Book [] b = new Book[n];
        for(int i=0;i<n;i++)
        {
            System.out.print("Enter book name:");
            book_name = sc.nextLine();
            System.out.print("Enter author's name:");
            author = sc.nextLine();
            System.out.print("Enter price of book:");
            price = sc.nextDouble();
            System.out.print("Enter the number of pages of book:");
            no_of_pages = sc.nextInt();
            sc.nextLine();
            b[i] = new Book(book_name,author,price,no_of_pages );
            System.out.println(b[i]);
        }
    }
}
```

```
PS C:\Users\dashr\OneDrive\Desktop\Roshni 00J Lab> javac Mainb.java
PS C:\Users\dashr\OneDrive\Desktop\Roshni 00J Lab> java Mainb
Enter the number of books:2
Enter book name: the food
Enter author's name:sanjeev
Enter price of book:450
Enter the number of pages of book:300
-----BOOK DETAILS-----
Book name:the food
Author:sanjeev
Price:450.0
Number of Pages : 300
-----
Enter book name:sports
Enter author's name:rahu]
Enter price of book:380
Enter the number of pages of book:400
-----BOOK DETAILS-----
Book name:sports
Author:rahu]
Price:380.0
Number of Pages :400
-----
PS C:\Users\dashr\OneDrive\Desktop\Roshni 00J Lab>
```