

# Name :Prema

## USN : 1BM19CS121

### LAB 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.

#### PROGRAM:

```
import java.util.*;

class Book{

    String name;

    String author;

    int num_pages;

    double price;

    Scanner in = new Scanner(System.in);

    Book()

    {

        name = "";

        author = "";

        num_pages= 0;

        price = 0;

    }

    void setvalues(){

        System.out.print("Enter book name:");

        name = in.nextLine();

        System.out.print("Enter author name:");

        author = in.nextLine();

        System.out.print("Enter price:");
```

```

        price = in.nextDouble();

        System.out.print("Enter no of pages:");

        num_pages = in.nextInt();

    }

    public String toString(){

        System.out.println("****BOOK DETAILS****");

        return("Book name =" + name + "\nAuthor =" + author + " \nPrice =" + price + "\nPages
        =" + num_pages);

    }

}

class Main{

    public static void main(String[] args){

        int n,i;

        Scanner in = new Scanner(System.in);

        System.out.print("Enter total number of books :");

        n = in.nextInt();

        Book[] B = new Book[n];

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

        {

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

            B[i] = new Book();

            B[i].setvalues();

        }

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

        {

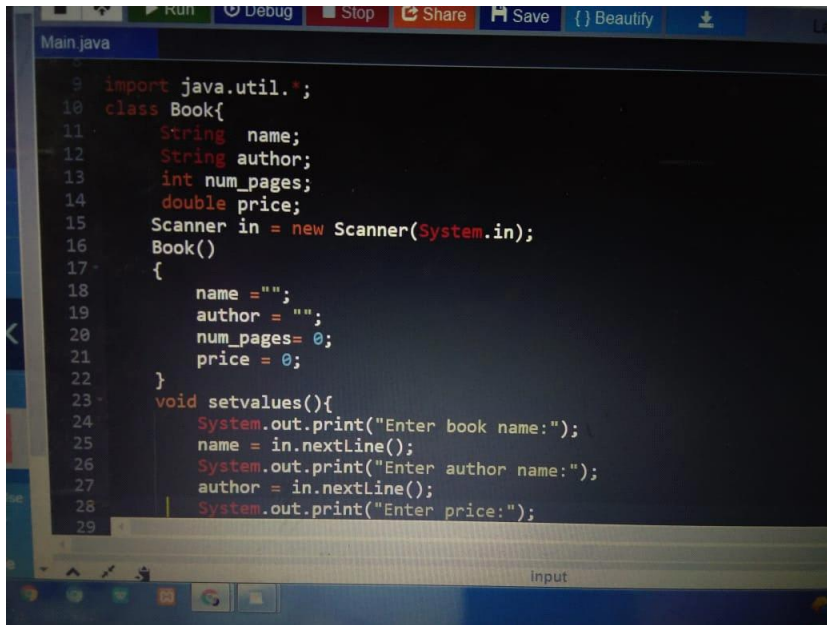
```

```

        System.out.println(B[i]);
    }
}
}

```

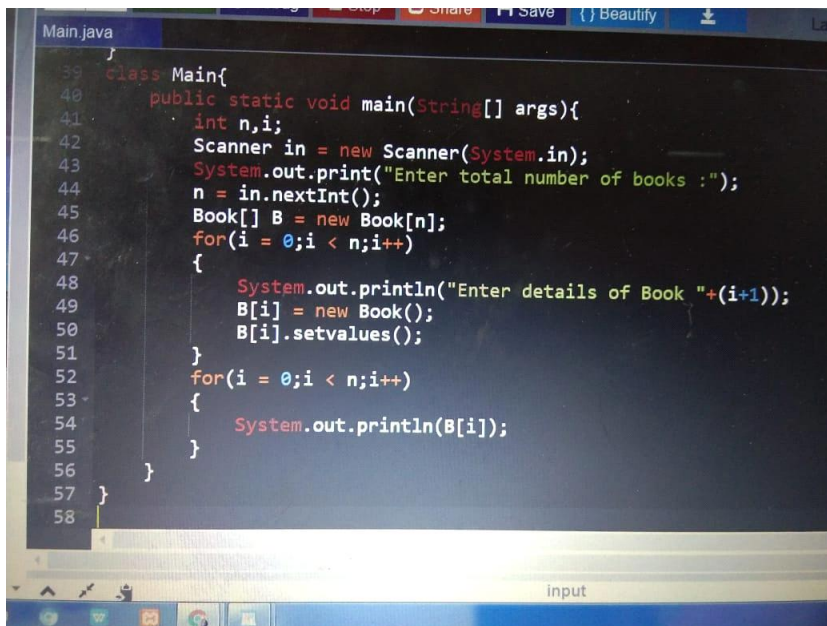
#### PROGRAM SCREENSHOTS:



```

Main.java
9  import java.util.*;
10 class Book{
11     String name;
12     String author;
13     int num_pages;
14     double price;
15     Scanner in = new Scanner(System.in);
16     Book()
17     {
18         name = "";
19         author = "";
20         num_pages = 0;
21         price = 0;
22     }
23     void setvalues(){
24         System.out.print("Enter book name:");
25         name = in.nextLine();
26         System.out.print("Enter author name:");
27         author = in.nextLine();
28         System.out.print("Enter price:");
29     }

```

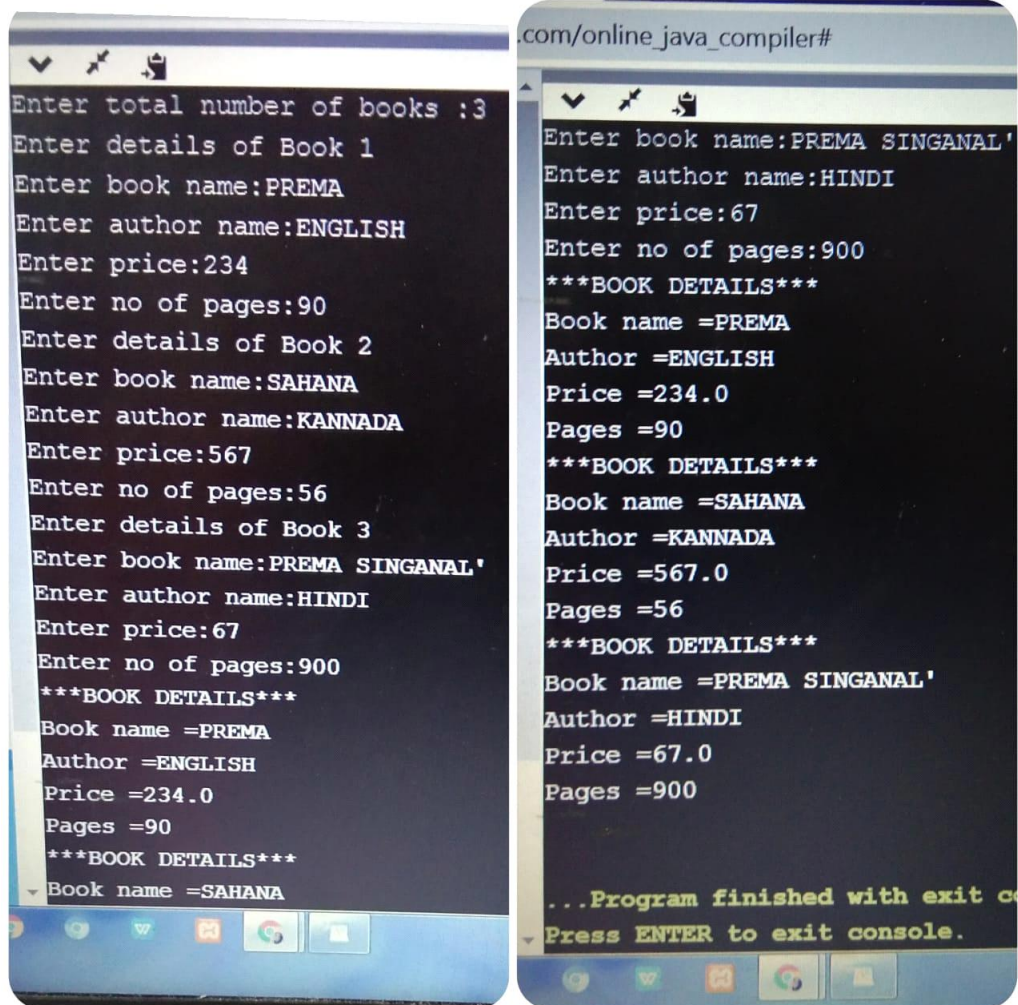


```

Main.java
39 class Main{
40     public static void main(String[] args){
41         int n,i;
42         Scanner in = new Scanner(System.in);
43         System.out.print("Enter total number of books :");
44         n = in.nextInt();
45         Book[] B = new Book[n];
46         for(i = 0; i < n; i++)
47         {
48             System.out.println("Enter details of Book "+(i+1));
49             B[i] = new Book();
50             B[i].setvalues();
51         }
52         for(i = 0; i < n; i++)
53         {
54             System.out.println(B[i]);
55         }
56     }
57 }
58

```

OUTPUT SCREENSHOTS:



```
com/online_java_compiler#  
Enter total number of books :3  
Enter details of Book 1  
Enter book name:PREMA  
Enter author name:ENGLISH  
Enter price:234  
Enter no of pages:90  
Enter details of Book 2  
Enter book name:SAHANA  
Enter author name:KANNADA  
Enter price:567  
Enter no of pages:56  
Enter details of Book 3  
Enter book name:PREMA SINGANAL'  
Enter author name:HINDI  
Enter price:67  
Enter no of pages:900  
***BOOK DETAILS***  
Book name =PREMA  
Author =ENGLISH  
Price =234.0  
Pages =90  
***BOOK DETAILS***  
Book name =SAHANA  
Author =KANNADA  
Price =567.0  
Pages =56  
***BOOK DETAILS***  
Book name =PREMA SINGANAL'  
Author =HINDI  
Price =67.0  
Pages =900  
...Program finished with exit c  
Press ENTER to exit console.
```

WRITTEN SCREENSHOTS OF LAB3 PROGRAM:

```
class Main {  
    public static void main(String[] args) {  
        int n;   
        Scanner in = new Scanner(System.in);  
        System.out.print("Enter total number of books:");  
        n = in.nextInt();  
        Book[] B = new Book[n];  
        for (i = 0; i < n; i++)  
        {  
            System.out.println("Enter book details of " + (i+1));  
            B[i] = new Book();  
            B[i].setvalues();  
        }  
        for (i = 0; i < n; i++)  
        {  
            System.out.println(B[i]);  
        }  
    }  
}
```