

## LAB PROGRAM – 3

Q.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.

```
import java.util.*;
import java.lang.*;
class Book
{

    String name,author; int price,num_pages;

    void getval()
    {

        Scanner sc=new Scanner(System.in);
        System.out.println("Enter book name");
        name=sc.next();
        System.out.println("Enter author name");
        author=sc.next();
        System.out.println("Enter price ");
        price=sc.nextInt();
        System.out.println("Enter No. of pages");
        num_pages=sc.nextInt();
    }
    public String toString()
    {
        return name+" "+author+" "+price+" "+num_pages+" ";
    }
    void display(Book o)
    {
        System.out.println(o);
    }
}
```

```
class Bookvck
{
    public static void main(String args[])
    {
        Scanner in=new Scanner(System.in);

        System.out.println("Enter the no. of book objects");
        int n=in.nextInt();
```

```
Book[] ob=new Book[n];  
for(int i=0;i<n;i++)  
ob[i]=new Book();  
for(int i=0;i<n;i++)  
{ ob[i].getval();}  
for(int i=0;i<n;i++)  
{ ob[i].display(ob[i]);}  
}  
}
```

### lab program- 3

- Q. 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 books objects.

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



```

        price = ss.nextDouble();
        System.out.println("Enter the number of pages of the book");
        num-pages = ss.nextLine();
    }

    public String toString()
    {
        return ("NAME : " + name + " In AUTHOR : " + author +
            " In PRICE : " + price + " In NUMBER OF PAGES : " + num-pages + " In");
    }
}

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("In BOOK DETAILS:");
            System.out.println("• books[i].toString()");
        }
    }
}

```



## Output

Enter the no. of books objects

2

Enter book name

ikiagi

Enter author name

aryan

Enter price

400

Enter No. of pages

90

Enter book name

happy

Enter author name

ashish

Enter price

700

Enter No. of pages

80

ikiagi    aryan    400    90

happy    ashish    700    80

~~order~~

```
Command Prompt
Microsoft Windows [Version 10.0.19045.2251]
(c) Microsoft Corporation. All rights reserved.

C:\Users\bmsce>cd C:\Users\bmsce\Desktop

C:\Users\bmsce\Desktop>javac three.java
javac: file not found: three.java
Usage: javac <options> <source files>
use --help for a list of possible options

C:\Users\bmsce\Desktop>cd C:\Users\bmsce\Desktop\18M21CS034

C:\Users\bmsce\Desktop\18M21CS034>javac three.java

C:\Users\bmsce\Desktop\18M21CS034>java notes
Enter the no. of book objects
2
Enter book name
ikiagi
Enter author name
aryan
Enter price
400
Enter No. of pages
90
Enter book name
happy
Enter author name
ashish
Enter price
700
Enter No. of pages
80
ikiagi aryan 400 90
happy ashish 700 80

C:\Users\bmsce\Desktop\18M21CS034>
```

Activate Windows  
Go to Settings to activate Windows.

Type here to search

25°C Haze ENG 7:41 AM 12/2/2022