

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 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.

CODE:

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Lab Program 3

III 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.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.nextInt();
}

public String toString()
{
    return ("NAME: " + name + "\nAUTHOR: "
+ author + "\nPRICE: " + price + "/-"
+ "\nNUMBER OF PAGES: " + num-pages + "\n");
}

class book_main
{
    public static void main(String xx[])
    {
        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("\nBOOK
DETAILS:");
            System.out.println(books[i].
toString());
        }
    }
}
```

```
price = ss.nextDouble();
System.out.println("Enter the number
of pages of the book:");
numPages = ss.nextInt();
}

public String toString()
{
    return ("NAME: " + name + "\nAUTHOR: "
+ author + "\nPRICE: " + price + "/-"
+ "\nNUMBER OF PAGES: " + numPages + "\n");
}

class BookMain
{
    public static void main(String[] args)
    {
        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("\nBOOK
DETAILS:");
            System.out.println(books[i].toString());
        }
    }
}
```

OUTPUT:

Enter the number of books:

2

Enter the name of the book:

Harry Potter and the Goblet of Fire

Enter the author of the book:

JK Rowling

Enter the price of the book:

462.54

Enter the number of pages of the book:

783

BOOK DETAILS:

NAME: Harry Potter and the Goblet of Fire

AUTHOR: JK Rowling

PRICE: 462.54/-

NUMBER OF PAGES: 783

Enter the name of the book:

Merchant of Venice

Enter the author of the book:

Shakespeare

Enter the price of the book:

230.76

Enter the number of pages of the book:

500

BOOK DETAILS

NAME: Merchant of Venice

AUTHOR: Shakespeare

PRICE: 230.76/-

NUMBER OF PAGES: 500

OUTPUT:

```
C:\ Command Prompt
Microsoft Windows [Version 10.0.22000.1219]
(c) Microsoft Corporation. All rights reserved.

C:\Users\dhiks>cd C:\Users\dhiks\Desktop

C:\Users\dhiks\Desktop>javac Lab3_java.java

C:\Users\dhiks\Desktop>java book_main
Enter the number of books:
2
Enter the name of the book:
Harry Potter and the Goblet of Fire
Enter the author of the book:
JK Rowling
Enter the price of the book:
462.54
Enter the number of pages of the book:
783

BOOK DETAILS:
NAME: Harry Potter and the Goblet of Fire
AUTHOR: JK Rowling
PRICE: 462.54/-
NUMBER OF PAGES: 783

Enter the name of the book:
Merchant of Venice
Enter the author of the book:
Shakespeare
Enter the price of the book:
230.76
Enter the number of pages of the book:
500

BOOK DETAILS:
NAME: Merchant of Venice
AUTHOR: Shakespeare
PRICE: 230.76/-
NUMBER OF PAGES: 500
```