

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:

```
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.

import java.util.Scanner;

class Book {
    int num-pages;
    double price;
    String name;
    String author;
    Book() {
        num-pages = 0;
        price = 0.0;
        name = "some-book";
        author = "some-author";
    }

    Book (int num-pages, double price, String name,
        String author)
    {
        this.num-pages = num-pages;
        this.price = price;
        this.name = name;
        this.author = author;
    }
}
```

```
void get-data()
{
    System.out.println("Book details \n name:" + name + "\n
        author:" + author + "\n number of
        pages:" + num-pages + "\n price:"
        + price);
    System.out.println("\n ----- \n");
}

public String toString()
{
    return ("Book details is \n name:" + name + "\n author:"
        + author + "\n no. of pages" + num-pages +
        "\n price:" + price);
}

}

class lab-2 {
    public static void main (String[] args) {
        Scanner s = new Scanner (System.in);
        int n = s.nextInt();
        Book b1[] = new Book[n];
        for (int i = 0; i < n; i++) {
            b1[i] = new Book();
            System.out.print("enter the name of the
                book:");
            String name = s.nextLine();
            System.out.print("enter the author's name:");
            String author = s.nextLine();
            System.out.print("enter the number of pages in
                the book:");
            int num-pages = s.nextInt();
            System.out.print("enter the price of the book:");
            double price = s.nextDouble();
        }
    }
}
```

```
System.out.println();  
b1[i].setData (num-pages, price, name,  
author);
```

```
}  
s.close();
```

```
for (int i=0; i<n; i++)  
b1[i].getData();  
s.close();
```

```
}
```

```
3.
```

Output:

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

C:\Users\bmsce>cd C:\Users\bmsce\Desktop\1BM21CS017

C:\Users\bmsce\Desktop\1BM21CS017>javac Lab_3_java.java

C:\Users\bmsce\Desktop\1BM21CS017>java lab_2
2
enter the name of the book: enter the author's name: Ansh
enter the number of pages in the book: 345
enter the price of the book: 765

enter the name of the book: enter the author's name: Shuv
enter the number of pages in the book: 65
enter the price of the book: 654

Book details
name:
author: Ansh
number of pages: 345
price: 765.0

-----

Book details
name:
author: Shuv
number of pages: 65
price: 654.0

-----

C:\Users\bmsce\Desktop\1BM21CS017>
```