

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="gamana";
    }
    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 set_data(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\nname: "+name+"\nauthor: "+author+"\nnmber of pages: "+num_pages+"\nprice: "+price);
        System.out.println("\n-----\n");
    }
    public String toString(){
        return ("Book details\nname: "+name+"\nauthor: "+author+"\nnmber of pages: "+num_pages+"\nprice: "+price+"\n-----\n");
    }

}
```

```

class lab_2 {
    public static void main(String[] args) {
        Book b1=new Book();
        Scanner s=new Scanner(System.in);
        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.set_data(num_pages,price,name,author);
        Book b2=new Book(20,87.65,"deception point","dan brown");
        b1.get_data();
        b2.get_data();
        System.out.println(b1);
        System.out.println(b2);
        s.close();
    }
}

```

Program-5

```

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_page, double price, String name,
          String author) {
        this.num_pages = num_page;
        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 to_string() {
        return ("Book details \n name: " + name + " \n
author: " + author + " \n number of pages: " + num_pages + " \n
price: " + price + " \n");
    }
}

class lab_5 {
    public static void main (String[] args) {
        Book b1 = new Book();
        Scanner s = new Scanner (System.in);
        System.out.println ("enter the name of the book:");
        String name = s.nextLine();
        System.out.println ("enter the author's name:");
        String author = s.nextLine();
        System.out.println ("enter the number of pages:");
        int num_pages = s.nextInt();
        System.out.println ("enter the price:");
        double price = s.nextDouble();
        System.out.println ();
    }
}

```

```

b1.set_data (num_pages, Price, name, author);
Book b2 = new Book (20, 87.65, "deception point",
                    "dan brown");

b1.get_data();
b2.get_data();
System.out.println(b1);
System.out.println(b2);
s.close();
}
}

```

Program-3 - Output -

enter the name of book : harry potter
enter the author's name : JK Rowling
enter the number of pages : 500
enter the price : 450

Book details
name : harry potter
author : JK Rowling
number of pages : 500
price : 450

Book details
name : deception point
author : dan brown
number of pages : 20
price : 87.65

Output:

```

total credits:7
69A-2-142857142857143
C:\Users\bmce\Desktop\18021CS065>javac book.java
C:\Users\bmce\Desktop\18021CS065>java lab_2
enter the name of the book: harry potter
enter the author's name: jk rowling
enter the number of pages in the book: 500
enter the price of the book: 450

book details
name: harry potter
author: jk rowling
number of pages: 500
price: 450.0
.....

book details
name: deception point
author: dan brown
number of pages: 20
price: 87.65
.....

book details
name: harry potter
author: jk rowling
number of pages: 500
price: 450.0
.....

book details
name: deception point
author: dan brown
number of pages: 20
price: 87.65
.....

```