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:

```
import java.util.Scanner;
class Book {
    private String name;
    private String author;
    private double price;
    private int num_pages;
    public Book(String name, String author, double price, int num_pages) {
        this.name = name;
        this.author = author;
        this.price = price;
        this.num_pages = num_pages;
    }
    public String getName() {
        return name;
    }
    public void setName(String name) {
        this.name = name;
    }
    public String getAuthor() {
        return author;
    }
    public void setAuthor(String author) {
        this.author = author;
    }
    public double getPrice() {
```

LAB program 3

```
return price;
   }
    public void setPrice(double price) {
        this.price = price;
    }
    public int getNumPages() {
        return num_pages;
    }
    public void setNumPages(int num_pages) {
        this.num_pages = num_pages;
    }
   @Override
    public String toString() {
        return "Book Name: " + name + "\nAuthor: " + author + "\nPrice:
        " + price + "\nNumber of Pages: " + num_pages;
   }
}
public class third {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the number of books: ");
        int n = sc.nextInt();
        sc.nextLine();
        Book[] books = new Book[n];
        for (int i = 0; i < n; i++) {
            System.out.println("\nEnter details of book " + (i + 1) + ":");
            System.out.print("Enter book name: ");
            String name = sc.nextLine();
            System.out.print("Enter author name: ");
            String author = sc.nextLine();
            System.out.print("Enter price: ");
            double price = sc.nextDouble();
            System.out.print("Enter number of pages: ");
```

LAB program 3 2

```
int num_pages = sc.nextInt();
    sc.nextLine();

    books[i] = new Book(name, author, price, num_pages);
}

System.out.println("\n--- Book Details ---");
for (int i = 0; i < n; i++) {
        System.out.println("\nDetails of book " + (i + 1) + ":");
        System.out.println(books[i].toString());
}

sc.close();
}</pre>
```

OUTPUT:

```
Enter the number of books:
Enter details of book 1:
Enter book name: Alchemist
Enter author name: paulo Coelho
Enter price: 289
Enter number of pages: 100
Enter details of book 2:
Enter book name: A Good Girl's Guide to Murder
Enter author name: Holly Jackson
Enter price: 350
Enter number of pages: 300
--- Book Details ---
Details of book 1:
Book Name: Alchemist
Author: paulo Coelho
Price: 289.0
Number of Pages: 100
Details of book 2:
Book Name: A Good Girl's Guide to Murder
```

LAB program 3 3

Author: Holly Jackson

Price: 350.0

Number of Pages: 300

PS E:\java lab>

OBSERVATION:

LAB program 3

Lab Program 3) - 9 create a class Book which contains four memb. name, authors prile, num pages. Include constructor. Include methods to set and out the debails of the objects. Include to Storing () method that could display the complete details of the book. Develop for no objects. java. util . Scanner; class Book & private strong name; pulvate Storng author: private double price; porvate ent num-pages: public Book (String name, Storing author, double price, set num-pages) & this name = name; this author = authors

this. porice = porice;

this num-pages = num-pages;

public String get Name () 5 (return name;

> public void set Name (Itning name) 2 this name = name;

Public . Storing get Author () { gutturn author;

public void set Author (String author) { this author = author;

public double get porce c) 1
2 return prices

```
public void setpoice Cdouble price)
               this porce = porce;
       public ent get Num Pages () ¿
             return num-pages;
      public void set Numpages (ent num-pages)
            this. num-pages = num-pages;
       Public String to String () 1
            return "Book Name: " + name +
"h Author: " + author +
                    t'In Price: E " + Price +
                   6. In Number of Pages: " + num-pages
Public class Main ?
     public static void main (string[] aug)?
  Scanner Sc = new Scanner (System. in);
           System. Out-pointh 1" Enter the rumber
            of books: 02);
           int n = sc. next Int ();
           sc. nenthine (s);
          Book[] books = new Book[n];
           (Rip author= author)
```

Entir number of pages ? 1000 Entir details of book 2 Enter book name: Entire book name: Enter Duthor rame; abc jo minimen se mon printe Erter book price: Enter number of pages: 500 book details: Book name: A suther: xy 2 price: 234 number of pages: 1000 Book name: B Author ? abc book price: 50 number of pages! 500.