

LAB - 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{
    String author;
    String name;
    int num_pages;
    double price;
    Scanner sc = new Scanner(System.in);
    void getDetails(){
        System.out.println("Enter Name of Author: ");
        author = sc.next();
        System.out.println("Enter the Title of Book ");
        name = sc.next();
        System.out.println("Enter Number of Pages: ");
        num_pages = sc.nextInt();
        System.out.println("Cost of Book: ");
        price = sc.nextDouble();
    }
    public String toString(){
        return (" Author:  "+author+"\n Book Title: "+name+"\n Pages:  "+num_pages+"\n Price:
"+price);
    }
    book(){
        //for default constructor
        author ="Hector Garcia, Albert Lieberman";
        name ="Ikigai: The Japanese Secret to a Long and Happy Life";
        num_pages =143;
        price = 362.00;
    }
    void display(){
        System.out.println(" Author :      "+author);
        System.out.println(" Book Title:   "+name);
        System.out.println(" Number of PAGES: "+num_pages);
        System.out.println(" Price:      "+price);
    }
}
```

```

class bookLib{
    public static void main(String ss[]){
        Scanner sc = new Scanner(System.in);
        int n;
        book s1 = new book();
        System.out.println("\t****"); //for default constructor
        s1.display();
        System.out.println("\t****");
        System.out.println("\n\nEnter the Number of books: ");
        n = sc.nextInt();
        book b[] = new book[n];
        for(int i=0;i<n;i++){
            System.out.println("\t****");
            System.out.println("Enter Details of Book: "+(i+1));
            b[i] = new book();
            b[i].getDetails();
        }
        System.out.println("\n  **All The Books We Have**");
        for(int i=0;i<n;i++){
            System.out.println("\n\t****");
            System.out.println("  BOOK :"+(i+1));
            System.out.println(b[i]);
        }
    }
}

```

Git Command Prompt

```
D:\coding files\OOJ Lab>javac l3-1.java
```

```
D:\coding files\OOJ Lab>java bookLib
```

```
Author :      Hector Garcia, Albert Lieberman
Book Title:   Ikigai: The Japanese Secret to a Long and Happy Life
Number of PAGES: 143
Price:       362.0
```

```
Enter the Number of books:
```

```
2
```

```
Enter Details of Book: 1
```

```
Enter Name of Author:
```

```
erg
```

```
Enter the Title of Book
```

```
frt
```

```
Enter Number of Pages:
```

```
34
```

```
Cost of Book:
```

```
456
```

```
Enter Details of Book: 2
```

```
Enter Name of Author:
```

```
gfh
```

```
Enter the Title of Book
```

```
df
```

```
Enter Number of Pages:
```

```
45
```

```
Cost of Book:
```

```
234
```

```
**All The Books We Have**
```

```
BOOK :1
```

```
Author:      erg
```

```
Book Title:  frt
```

```
Pages:      34
```

```
Price:      456.0
```

C:\ Command Prompt

BOOK :2

Author: gfh

Book Title: df

Pages: 45

Price: 234.0

D:\coding files\00J Lab>javac trial.java

trial.java:67: error: reached end of file while parsing

}

^

1 error

D:\coding files\00J Lab>javac trial.java

trial.java:51: error: cannot find symbol

book b[] = new book[n];

^

symbol: class book

location: class TestBook

trial.java:51: error: cannot find symbol

book b[] = new book[n];

^

symbol: class book

location: class TestBook

trial.java:54: error: cannot find symbol

b[i] = new book();

^

symbol: class book

location: class TestBook

3 errors

D:\coding files\00J Lab>javac trial.java

trial.java:54: error: constructor Book in class Book cannot be applied to given types;

b[i] = new Book();

^

required: String,String,double,int

found: no arguments

reason: actual and formal argument lists differ in length

1 error

D:\coding files\00J Lab>