

Week 5 - LAB 3 Program

```
import java.util.Scanner;
```

```
Class Book {
```

```
    String name, author;
```

```
    Double price;
```

```
    int num-pages;
```

```
    Scanner sc = new Scanner(System.in);
```

```
    Book() {
```

```
    Book(String name, String author, Double price, int pages) {
```

```
        this.name = name;
```

```
        this.author = author;
```

```
        this.price = price;
```

```
        this.num-pages = pages;
```

```
    }
```

```
    void setDetails() {
```

```
        System.out.print("Enter name of the book:");
```

```
        this.name = sc.nextLine();
```

```
        System.out.print("Enter the author of the book:");
```

```
        this.author = sc.nextLine();
```

```
        System.out.print("Enter the price:");
```

```
        this.price = sc.nextDouble();
```

```
        System.out.print("Enter the number of pages:");
```

```
        this.num-pages = sc.nextInt();
```

```
    }
```

```
    void getDetails() {
```

```
        System.out.println("Name: " + name);
```

```
        System.out.println("Author: " + author);
```

```
        System.out.println("Price: " + price);
```

```

System.out.println("Number of pages:" + numPages);
}

public String toString() {
    return ("Name:" + name + " Author:" + author + " No  

    Price:" + numPages);
}
}

public class Labprog3 {
    public static void main (String args[]) {
        int n;
        Book books[];
        Book myBook = new Book ("Chamber of Secrets", "J.K  

        Rowling", 35.55, 367);
        Scanner sc = new Scanner (System.in);

        System.out.print ("Enter number of books: ");
        n = sc.nextInt();
        books = new Book [n];

        for (int i=0; i<books.length; i++) {
            System.out.println ("Enter details for book" + (i+1) + ":");
            books[i] = new Book ();
            books[i].setDetails();
        }

        for (int i=0; i<books.length; i++) {
            System.out.println ("Details of book" + (i+1) + ":");
            books[i].getDetails();
        }
        System.out.println();

        System.out.println (myBook);
    }
}

```



```
Labprog3 - Notepad
File Edit Format View Help
import java.util.Scanner;

class Book{
    String name,author;
    double price;
    int num_pages;
    Scanner sc = new Scanner(System.in);

    Book(){

    }

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

    void setDetails(){
        System.out.print("Enter name of the book: ");
        this.name = sc.nextLine();
        System.out.print("Enter the author of the book: ");
        this.author = sc.nextLine();
        System.out.print("Enter the price: ");
        this.price = sc.nextDouble();
        System.out.print("Enter the number of pages: ");
        this.num_pages = sc.nextInt();
    }

    void getDetails(){
        System.out.println("Name: " + name);
        System.out.println("Author: " + author);
        System.out.println("Price: " + price);
        System.out.println("Number of pages: " + num_pages);
    }

    public String toString(){
        return("Name: " + name + "\nAuthor: " + author + "\nPrice: " + price + "\nNumber of pages: " + num_pages);
    }
}
```

```
Labprog3 - Notepad
File Edit Format View Help

}

void getDetails(){
    System.out.println("Name: " + name);
    System.out.println("Author: " + author);
    System.out.println("Price: " + price);
    System.out.println("Number of pages: " + num_pages);
}

public String toString(){
    return("Name: " + name + "\nAuthor: " + author + "\nPrice: " + price + "\nNumber of pages: " + num_pages);
}
}

public class Labprog3{
    public static void main(String args[]) {
        int n;
        Book books[];
        Book myBook = new Book("Chamber Of Secrets", "J.K Rowling", 35.55, 367);
        Scanner sc = new Scanner(System.in);

        System.out.print("Enter number of books: ");
        n = sc.nextInt();
        books = new Book[n];

        for(int i=0;i<books.length;i++){
            System.out.println("Enter details for book " + (i+1) + ": ");
            books[i] = new Book();
            books[i].setDetails();
        }
        for(int i=0;i<books.length;i++){
            System.out.println("Details of book " + (i+1) + ": ");
            books[i].getDetails();
            System.out.println();
        }

        System.out.println(myBook);
    }
}

}

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```

```
Command Prompt
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C:\Users\91957>cd desktop

C:\Users\91957\Desktop>cd java lab

C:\Users\91957\Desktop\java lab>javac Labprog3.java

C:\Users\91957\Desktop\java lab>java Labprog3
Enter number of books: 3
Enter details for book 1:
Enter name of the book: abc
Enter the author of the book: neehal
Enter the price: 231
Enter the number of pages: 399
Enter details for book 2:
Enter name of the book: xyz
Enter the author of the book: arnav
Enter the price: 300
Enter the number of pages: 455
Enter details for book 3:
Enter name of the book: ghi
Enter the author of the book: aman
Enter the price: 40
Enter the number of pages: 100
Details of book 1:
Name: abc
Author: neehal
Price: 231.0
Number of pages: 399

Details of book 2:
Name: xyz
Author: arnav
Price: 300.0
Number of pages: 455

Details of book 3:
Name: ghi
Author: aman
Price: 40.0
Number of pages: 100

Name: Chamber Of Secrets
Author: J.K Rowling
Price: 35.55
Number of pages: 367

C:\Users\91957\Desktop\java lab>
```