

Name - Yash Lakhtariya

Enrollment number - 21162101012

Branch - CBA , Batch - 31

OOP Practical 12

Problem : A library management software is to be designed to ease the fetching of books based on their title present within the library. Implement complete abstraction through interface and abstract class:

- i. Abstract class Book to assign a title through parameters
- ii. Interface TitleBook to fetch a title
- iii. MyBook to override the abstract functions

Program :

```
package Hare_Krishna;

import java.util.Scanner;

abstract class Book
{
    String title;
    abstract void setTitle(String b);
}

interface TitleBook
{
    void setTitle(String tb);
    public String getTitle();
}
```

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```
class MyBook extends Book implements TitleBook
{
    public void setTitle(String mb)
    {
        title = mb;
    }
    public String getTitle()
    {
        return title;
    }
}
public class Prac_12
{
    public static void main(String... s)
    {
        Scanner scnr = new Scanner(System.in);
        System.out.print("\nEnter title of the book : ");
        String twelve = scnr.nextLine();
        MyBook mb1 = new MyBook();
        mb1.setTitle(twelve);
    }
}
```

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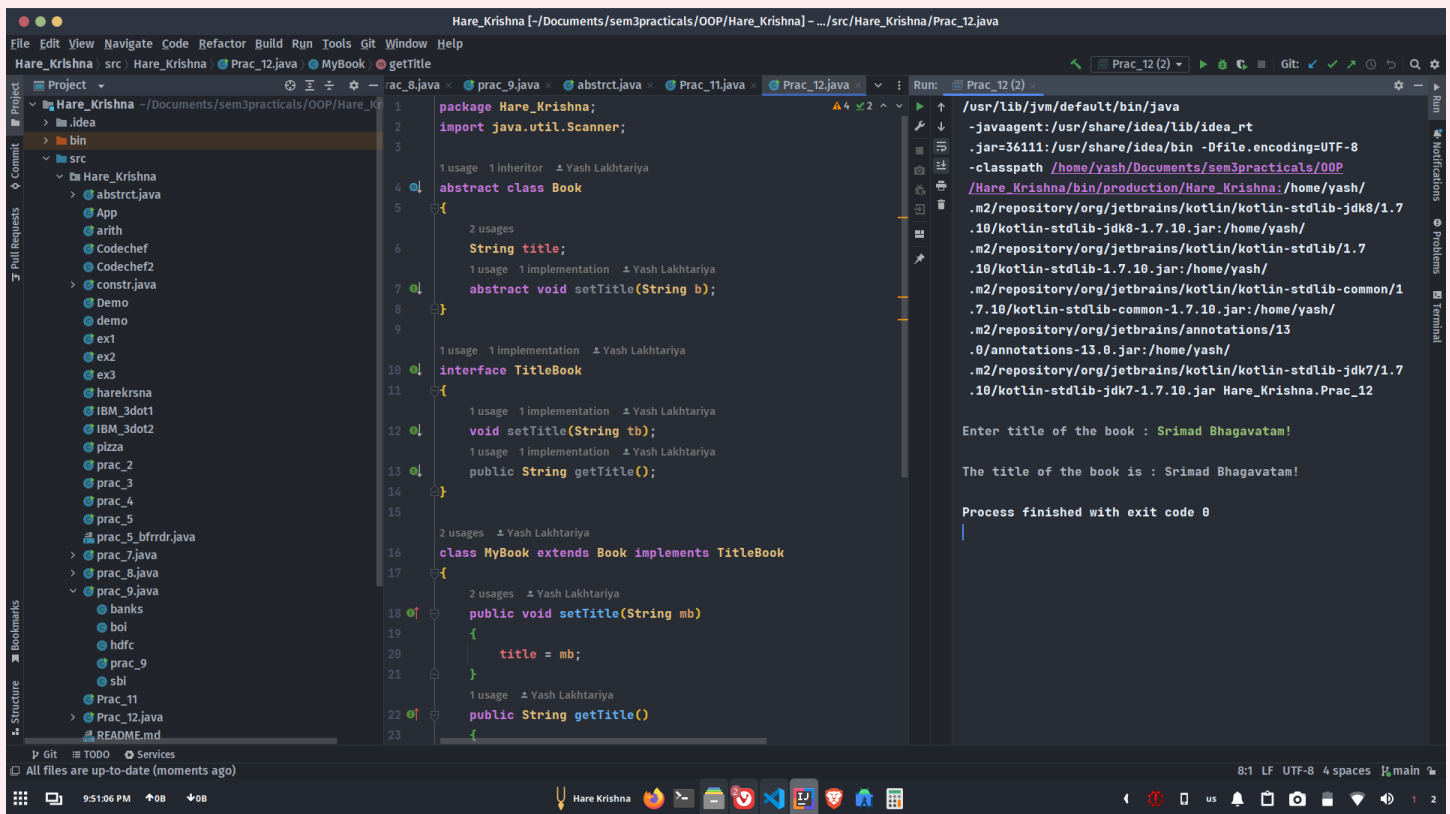
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```
        System.out.print("\nThe title of the book is : " +  
mb1.getTitle() + "\n");  
    }  
}
```

Output :



```
package Hare_Krishna;  
import java.util.Scanner;  
  
abstract class Book  
{  
    String title;  
    abstract void setTitle(String b);  
}  
  
interface TitleBook  
{  
    void setTitle(String tb);  
    public String getTitle();  
}  
  
class MyBook extends Book implements TitleBook  
{  
    public void setTitle(String mb)  
    {  
        title = mb;  
    }  
    public String getTitle()  
    {  
    }  
}
```

Run: Prac_12 (2)

```
/usr/lib/jvm/default/bin/java  
-javaagent:/usr/share/idea/lib/idea_rt  
.jar=36111:/usr/share/idea/bin -Dfile.encoding=UTF-8  
-classpath /home/yash/Documents/sem3practicals/OOP  
/Hare_Krishna/bin/production/Hare_Krishna:/home/yash/  
.m2/repository/org/jetbrains/kotlin/kotlin-stdlib-jdk8/1.7  
.10/kotlin-stdlib-jdk8-1.7.10.jar:/home/yash/  
.m2/repository/org/jetbrains/kotlin/kotlin-stdlib/1.7  
.10/kotlin-stdlib-1.7.10.jar:/home/yash/  
.m2/repository/org/jetbrains/kotlin/kotlin-stdlib-common/1  
.7.10/kotlin-stdlib-common-1.7.10.jar:/home/yash/  
.m2/repository/org/jetbrains/annotations/13  
.0/annotations-13.0.jar:/home/yash/  
.m2/repository/org/jetbrains/kotlin/kotlin-stdlib-jdk7/1.7  
.10/kotlin-stdlib-jdk7-1.7.10.jar Hare_Krishna.Prac_12  
  
Enter title of the book : Srimald Bhagavatam!  
  
The title of the book is : Srimald Bhagavatam!  
  
Process finished with exit code 0
```