```
Name - Yash Lakhtariya
Enrollment number - 21162101012
Branch - CBA , Batch - 31
OOP Practical 12
```

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

Output:

```
Hare_Krishna [-/Documents/sem3practicals/OOP/Hare_Krishna] - .../src/Hare_Krishna/Prac_12.java
File Edit View Navigate Code Refactor Build Run Tools Git Window Help
Hare_Krishna ⟩ src ⟩ Hare_Krishna ⟩ 🍪 Prac_12.java ⟩ 🔞 MyBook ⟩ 🚳 getTitle
    ■ Project → ⑤ ፻ ÷ ¢ - rac_8.java × ⑤ prac_9.java × ⑥ prac_ti.java × ⑥ Prac_1t.java × ◎ Prac_12.java × ∨ ∶ Run: ◎ Prac_12.(2) → □ package Hare_Krishna - /Documents/sem3practicals/00P/Hare_Ki 1 package Hare_Krishna;
   ■ Proiect 🕶
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                                                                                                                                          -javaagent:/usr/share/idea/lib/idea rt
                                                              import java.util.Scanner:
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      ∨ 🖿 Hare Krishna
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                                                                 abstract void setTitle(String b):
                                                                                                                                           .m2/repository/org/jetbrains/kotlin/kotlin-stdlib-common/1
          ₫ Demo
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          IBM_3dot2
                                                                  void setTitle(String tb);
                                                                                                                                          Enter title of the book : Srimad Bhagavatam!
          ₫ prac 2
                                                                  public String getTitle();
                                                                                                                                          The title of the book is : Srimad Bhagavatam!
          ♂ prac_4
♂ prac_5
                                                                                                                                          Process finished with exit code \theta
        # prac_5_bfrrdr.java

> @ prac_7.java
                                                              class MyBook extends Book implements TitleBook
         ∨ 🎯 prac_9.java
                                                                  public void setTitle(String mb)
                                                                      title = mb;
           ₫ prac_9
⊚ sbi
                                                                  public String getTitle()
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All files are up-to-date (moments ago)
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```