

Experiment 1.2

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Branch: BE-CSE

Section/Group: 21BCS-605(B)

Subject name: OOPs Using JAVA

AIM: Write a program to implement abstract class using Java inheritance

OBJECTIVE:

We have to create another class that extends the abstract class. Then We can create an instance of the new class.

Notice that *setTitle* method is abstract too and has no body. That means We must implement the body of that method in the child class.

In the editor, we have provided the abstract *Book* class and a *Main* class. In the *Main* class, we created an instance of a class called *MyBook*. Your task is to write just the *MyBook* class. Wer class mustn't be public.

PROGRAM CODE:

```
import java.util.*;

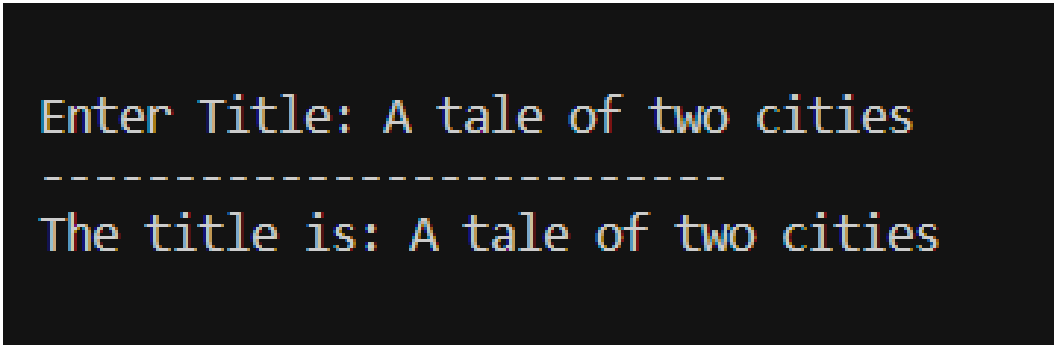
abstract class Book {
    String title;
    abstract void setTitle(String s);
    String getTitle()
    {
        return title;
    }
}

class MyBook extends Book {

    @Override
    void setTitle(String s){
        this.title = s;
    }
}
```

```
}  
  
class Main {  
    public static void main(String []args) {  
        System.out.print("Enter Title: ");  
        Scanner sc=new Scanner(System.in);  
        String title=sc.nextLine();  
        MyBook new_novel=new MyBook();  
        new_novel.setTitle(title);  
        System.out.println("-----");  
        System.out.println("The title is: " + new_novel.getTitle());  
        System.out.println("\n");  
        sc.close();  
    }  
}
```

OUTPUT:



```
Enter Title: A tale of two cities  
-----  
The title is: A tale of two cities
```

Learning outcomes (What I have learnt):

1. Learned about Java abstract class.
2. Learned about Java inheritance.
3. Use of override feature in Java.

Evaluation Grid:

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.	Student Performance (Conduct of experiment) objectives/Outcomes.		12
2.	Viva Voce		10
3.	Submission of Work Sheet (Record)		8
	Total		30