

## Experiment 1.2

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**AIM:** Create an abstract class Book and then a child class MyBook that extends the abstract class. In the Main class, we created an instance of the child class MyBook. The setTitle() method is abstract too and has no body. That means it must be implemented in the child class MyBook.

### OBJECTIVE:

An abstract class cannot be instantiated. The purpose of an abstract class to provide a common definition of a base class that multiple derived classes can share.

### 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.println("Name - Shivam Kumar \n");  
        System.out.println("UID - 21BCS2124");  
        System.out.println("\n");  
        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:

### ✓ Sample Test case 0

Input (stdin)

[Download](#)

### ✓ Sample Test case 1

1	A tale of two cities
---	----------------------

Your Output (stdout)

1	The title is: A tale of two cities
---	------------------------------------

Expected Output

[Download](#)

1	The title is: A tale of two cities
---	------------------------------------

```

Name - Shivam Kumar

UID - 21BCS2124

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