

Challenge 1: Implement an Abstract Method in a Base Class

Can you implement an abstract method of a base class? A solution is placed in the "solution" section to help you, but we would suggest you try to solve it on your own first.

We'll cover the following ^

- Problem Statement
 - Input
 - Output
 - Sample Input
 - Sample Output
- Coding Exercise

Problem Statement

We have already implemented a `Book` class which has an abstract method `getDetails()`, a parameterized constructor, and three protected fields:

- `name`
- `author`
- `price`

Write a `MyBook` class that inherits from the `Book` class and has a parameterized constructor taking these parameters:

- **String title**
- **String author**
- **String price.**

Implement the `Book` class `getdetails()` method in the `MyBook` class so that it returns the `MyBook` details.

Input

Input #

```
Calls the constructor by passing name, author, and price.  
Calls the `getDetails()` method to return the details of a book.
```

Output

```
Returns the details of a book.
```

Sample Input

```
Book myBook = new MyBook("Harry Potter", "J.k. Rowling", "100");
```

Sample Output

```
"Harry Potter, J.k. Rowling, 100"
```

Coding Exercise

First, take a close look and design a step-by-step algorithm before jumping to the implementation. This problem is designed for your practice, so initially try to solve it on your own. If you get stuck, you can always refer to the solution provided in the solution review.

Good Luck!

```
// Abstarct Book Class  
abstract class Book {  
  
    // Protected Fields  
    protected String name;  
    protected String author;  
    protected String price;  
  
    // Parameterized Constructor  
    public Book(String name, String author, String price) {  
        this.name = name;  
        this.author = author;  
        this.price = price;  
    }  
  
    // Abstract Method  
    public abstract String getDetails();  
  
}  
  
// Class MyBook extending Book Class
```



```
class MyBook extends Book {  
  
    // Parameterized Constructor  
  
    public MyBook(String name, String author, String price) {  
        super(name, author, price);  
    }  
  
    // Overrideing the getDetails Abstrat Method of the Base Class  
    public String getDetails() {  
        // Write your code here  
        return "";  
    }  
  
}
```



The solution will be explained in the next lesson.