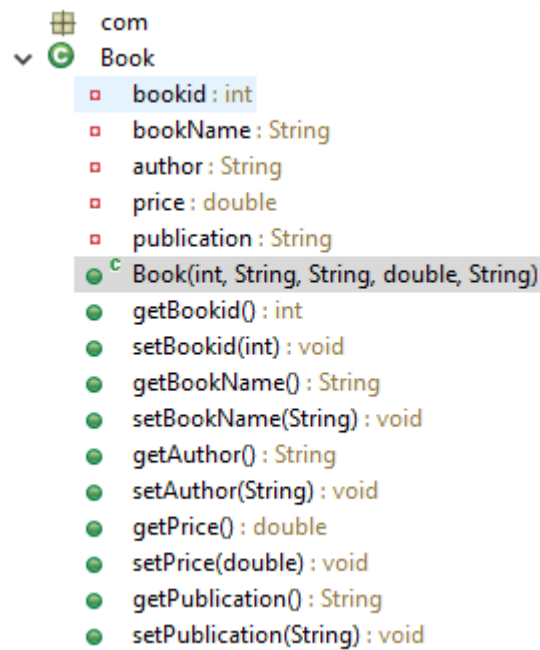


Create package com.

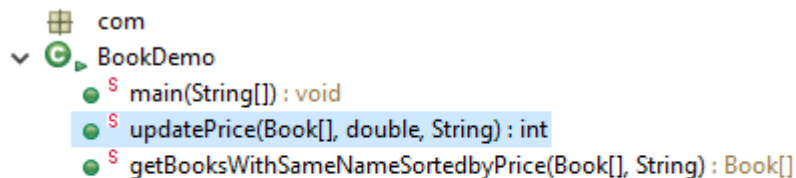
Create a class Book based on class outline given below:



Make all the attributes private. Create corresponding getters and setters.

Create a constructor which takes all parameters in the above sequence. The constructor should set the value of attributes to parameter values inside the constructor.

Create a class BookDemo with main method based on the outline given below:



Create a static method **updatePrice** which takes array of Book objects, amount to deduct & publication name as input parameter, and returns the count of objects updated based on the criteria given below.

The price of all books should get updated with new price, if it matches with the given publication name and price of the book should be greater than 500.

Formula for deduction given below.

$$\text{new price} = \text{old price} - \text{amount to deduct}$$

Note : All string comparison should be case insensitive

Create another static method **getBooksWithSameNameSortedbyPrice** in the BookDemo class. This method will take array of Book objects and bookname as input. Will return all the books with same bookname passed as parameter and sorted by price(Ascending).

Note :

1. **All string comparison should be case insensitive**
2. **Assume no books with same price & author exist.**

Please ensure that class names, attribute names, method signature etc. is same as above. Else your code will fail and score would be zero.

Refer below sample main method and test the output. You can copy the same code in main method and test the implementation.

Next submit the code in iASCERT for evaluation. Also, upload the code in iON assignment activity.

Sample main method:

```
public static void main(String[] args) {  
  
    Book b1 = new Book(11,"History","Jagu",300,"Kripa");  
    Book b2 = new Book(12,"Geography","Jagu",200,"Kripa");  
    Book b3 = new Book(13,"History","Rama",250,"ABC");  
    Book b4 = new Book(14,"History","Helen",270,"ABC");  
    Book b5 = new Book(15,"Zoology","Jagu",600,"Kripa");  
  
    Book[] barr = {b1,b2,b3,b4,b5};  
  
    Book[] arr = BookDemo.getBooksWithSameNameSortedbyPrice(barr,"history");  
    for(Book b : arr) {  
        System.out.println(b.getBookid()+" "+b.getBookName()+" "+b.getPrice()+"  
"+b.getPublication());  
    }  
  
    int count = BookDemo.updatePrice(barr, 100, "kripa");  
    System.out.println(count);  
}
```

Output:

```
13 History 250.0 ABC  
14 History 270.0 ABC  
11 History 300.0 Kripa  
1
```