

q ~~calculator~~ BOOK QUESTION

```
import java.util.Scanner;  
class Book  
{  
    String name;  
    String author;  
    float price;  
    int num-pages;  
    void set-details()  
    {  
        Scanner sc = new Scanner(System.in);  
        System.out.println("Enter book name, author,  
        price, no. of pages");  
        name = sc.next();  
        author = sc.next();  
        price = sc.nextFloat();  
        num-pages = sc.nextInt();  
    }  
}
```

```
void get-details (book b[], string search-name)
```

```
{  
    int n = b.length;  
    boolean found = false;
```

```
    for (int i = 0; i < n; i++)
```

```
    {  
        if (b[i].name.equals (search-name))
```

```
        {  
            found = true;
```

```
            System.out.println ("details of book is:");
```

```
            System.out.println (b[i].toString());
```

```
        }
```

```
    }
```

```
    if (found == false)
```

```
    {  
        System.out.println ("no. book exists found");
```

```
    }
```

```
}
```

```
public String toString()
```

```
{  
    return "The book " + name + " was written  
        by " + author + " at cost of + num  
        pages + " pages & cost " + price;
```

```
}
```

```
public static void main (String args[])
```

```
{  
    System.out.println ("Enter no. of books to  
        generate:");
```

```
    int n = sc.nextInt();
```

```
    book b[] = new book[n];
```



```
for (int i = 0; i < n; i++)
```

```
{  
    b[i] = new book();  
    b[i].set-details();  
}
```

```
System.out.println (" enter name of book to  
search ");
```

```
String search-name = scan.next();
```

```
bot.get-details(b, search-name);
```

```
}
```

```
import java.util.Scanner;
```

```
abstract class shape {
```

```
    int x, y;
```

```
    abstract void area();
```

```
    public static void main (String args[])
```

```
{  
    shape obj1 = new circle();
```

```
    obj1.area();
```

```
    shape obj2 = new rectangle();
```

```
    obj2.area();
```

```
    shape obj3 = new triangle();
```

```
    obj3.area();
```

```
}
```

```
}
```

```

class Circle extends Shape {
    circle() {
        Scanner sc = new Scanner(System.in);
        System.out.println("enter the radius of circle");
        r = sc.nextInt();
        y = r;
    }
    void area() {
        {
            System.out.println("area of rectangle is " +
                "x * y");
        }
    }
}

```

```

class Triangle extends Shape {
    triangle() {
        Scanner sc = new Scanner(System.in);
        System.out.println("enter the base and height
            of the triangle");
        x = sc.nextInt();
        y = sc.nextInt();
    }
    void area() {
        {
            System.out.println("area of rectangle is " + "x * y");
        }
    }
}

```

```


class Triangle extends Shape {
    triangle() {
        Scanner sc = new Scanner(System.in);
        System.out.println("enter the base and
    

```



```

class Rectangle extends Shape {
    Rectangle() {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the length and
        breadth of the rectangle");
        x = sc.nextInt();
        y = sc.nextInt();
        void area()
    }
}

```

```

}
class Triangle extends Shape {
    Triangle() {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the base & height
        of the triangle");
        x = sc.nextInt();
        y = sc.nextInt();
        void area() {
            System.out.println("Area of triangle is
             $0.5 * x * y$ ");
        }
    }
}

```

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OUTPUT:

Area of rectangle: 50

Area of triangle: 16.0

Area of circle: 113.0973353

Q2//

OUTPUT

enter the radius of circle 4

area of circle is 50.24

enter the length of and breadth of rectangle 2 6

area of rectangle is 12

enter the base and height of triangle 2 6

area of triangle is 6.0

Q3// OUTPUT:

enter the no. of books

1

enter name, author, price, no. of pages

abc

ada

1000

200

THE BOOK LIBRARY

name of book abc

name of author aa

price of book 1000

no. of pages of book : 200

31. 10. 1905

21-10-27

more

few more

Handwritten: 3000

2012-2013

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Whitman; in

1500