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import java.util.*; //Scanner class to take user input
class Publication //Publication class is a base class
{
    String title; //Common Data Members
    int price, copies; //Common Data Members
    public static int total=0; //Total Sale of Publication
    public int saleCopy()
    {
        System.out.println("Total Sale of Publication is: "+(copies*price));
        return(copies*price);
    }
    public int getcopies()
    {
        return this.copies;
    }
    public int setcopies(int cp)
    {
        return this.copies=cp;
    }
    public int setprice(int p)
    {
        return this.price=p;
    }
}
class Book extends Publication //Book is the derived class of Publication
{
    String author; //author of the book
    int pcopies, price1; //Temporary variables to set the values of price and copies
    public int saleCopy() //Overridden Method
    {
        System.out.println("Total Sale of book is: "+(copies*price));
        total=total+(copies*price); //Calculate total sale of the publication
        return (copies*price);
    }
    public void orderCopies()
    {
        Scanner in=new Scanner(System.in);
        System.out.println("Enter the title of the Book to be ordered: ");
        title=in.nextLine();
        System.out.println("Enter the author of the Book to be ordered: ");
        author=in.nextLine();
        System.out.println("Enter the no of copies of the Book to be ordered: ");
        pcopies=in.nextInt();
        System.out.println("Enter the price of the Book to be ordered: ");
        price1=in.nextInt();
        setcopies(getcopies() + pcopies);
        setprice(price1);
    }
}
class Magazine extends Publication //Magazine

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{
    private int orderQty;
    private String currIssue;
    public String getcurrIssue()
    {
        return this.currIssue;
    }
    public void setcurrIssue(String issue)
    {
        this.currIssue = issue;
    }
    public int getorderQty()
    {
        return this.orderQty;
    }
    public void setorderQty(int copies)
    {
        this.orderQty = copies;
    }
    public int saleCopy()
    {
        System.out.println("Total Sale of Magazine is: "+(copies*price));
        total=total+(copies*price);
        return (copies*price);
    }
    public void recvNewIssue(String pNewIssue)
    {
        setcopies(orderQty);
        currIssue=pNewIssue;
    }
}
class pub
{
    public static void main(String args[])
    {
        Book b1=new Book(); //Object for Book1
        b1.orderCopies(); //Order Book1-cust 1
        b1.orderCopies(); //Order Book1-cust2
        System.out.println("Total Copies of the Book1 Ordered: "+b1.copies);
        b1.saleCopy();
        Book b2=new Book();
        b2.orderCopies(); //Order Book2
        System.out.println("Total Copies of the Book2 Ordered: "+b2.copies);
        b2.saleCopy();
        System.out.println("Total Sale of Publication is: "+b1.total);
    }
}

```

Output

Clear

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java -cp /tmp/q8xwDwrKrW pub
Enter the title of the Book to be ordered:
Wings of Fire
Enter the author of the Book to be ordered:
Dr. APJ Abdul Kalam
Enter the no of copies of the Book to be ordered:
25
Enter the price of the Book to be ordered:
120
Enter the title of the Book to be ordered:
Bobby Fischer Teaches Chess
Enter the author of the Book to be ordered:
Bobby Fischer
Enter the no of copies of the Book to be ordered:
25
Enter the price of the Book to be ordered: 200
Total Copies of the Book1 Ordered: 50
Total Sale of book is: 10000
Enter the title of the Book to be ordered:
Hamlet
Enter the author of the Book to be ordered:
William Shakespeare
Enter the no of copies of the Book to be ordered:
12
Enter the price of the Book to be ordered:
210
Total Copies of the Book2 Ordered: 12
Total Sale of book is: 2520
Total Sale of Publication is: 12520
|
```