Assignment 02 - OOPL (Code)

```java
public class Publication{
        String title;
        double price;
        int copies;

        abstract void sellCopy() {

        } //Empty method i.e. only declaration.
        abstract void setPrice() {

        } //Empty method i.e. only declaration.



}

import java.util.*;

public class Book extends Publication{ //The word 'extends' does the work of
inheritance.

        String author;

        @Override //Overriding sellCopy method for books.
        void sellCopy(){
        System.out.println("Title: " + title + "\n");
        System.out.println("Author name: " + author + "\n");
        System.out.println("Price per 1 book: " + price + "\n");
        System.out.println("Copies ordered: " + copies + "\n");
        System.out.println("Total sale of 'Books' is " + "₹" + (price * copies) +
"\n");
        }
```

```java
    void orderCopies(){
    System.out.println("Order Quantity: \n");
    Scanner sc1 = new Scanner(System.in);
    copies = sc1.nextInt();
    }

    @Override //Overriding setPrice method for books.
    void setPrice(){
    System.out.println("Enter the title of the book: \n");
    Scanner tit = new Scanner(System.in);
    title = tit.next();

    System.out.println("Enter the author of the book: \n");
    Scanner auth = new Scanner(System.in);
    author = auth.next();

    System.out.println("Enter the price of the book: \n");
    Scanner pri = new Scanner(System.in);
    price = pri.nextInt();

    }
}


import java.util.*;

public class Magazine extends Publication{ //The word 'extends' does the work of
inheritance.

    String curentIssue;

    @Override //Overriding sellCopy method for magazines.
    void sellCopy(){
    System.out.println("Title: " + title + "\n");
```

```java
        System.out.println("Price per 1 magazine: " + price + "\n");
        System.out.println("Copies ordered: " + copies + "\n");
        System.out.println("Total sale of 'Magazines' is " + "₹" + (price*copies) +
"\n");
    }

    void orderQuantity(){
        System.out.println("Enter Quantity (Magazine): \n");
        Scanner quantity = new Scanner(System.in);
        copies = quantity.nextInt();
    }

    void curentIssue(){
        System.out.println("Current issue of the Magazine is: " + curentIssue +
"\n");

    }

    void receiveIssue(){
        System.out.println("You'll get " + currentIssue + " Magazine soon... \n");

    }

    @Override //Overriding setPrice function for magazines.
    void setPrice(){
        System.out.println("Enter the title of the magazine: \n");
        Scanner tit = new Scanner(System.in);
        title = tit.next();

        System.out.println("Enter issue: \n");
        Scanner issue = new Scanner(System.in);
        currentIssue = issue.next();

        System.out.println("Enter the price of the magazine: \n");
        Scanner pri = new Scanner(System.in);
```

```java
            price = pri.nextInt();
            }
}

public class Main {              //Main class where objects are created & methods
are called.

        public static void main(String[] args){
        Book b = new Book();
        b.setPrice();
        b.orderCopies();
        b.sellCopy();

        Magazine m = new Magazine();
        m.setPrice();
        m.orderQuantity();
        m.recieveIssue();
        m.sellCopy();
        }
} //Code ends here.
```

Output

Enter the title of the book:
Love

Enter the author of the book:
Pranit Zambre

Enter the price of the book:
420

Order Quantity:

69

Title: Love

Author name: Pranit

Price per 1 book: 420.0

Copies ordered: 69

Total sale of 'Books' is ₹28980.0

Enter the title of the magazine:
BitcoinMagazine

Enter issue:
MemesMagazine

Enter the price of the magazine:
69
Enter Quantity (Magazine):
420

You'll get MemesMagazine Magazine soon...

Title: BitcoinMagazine

Price per 1 magazine: 69.0

Copies ordered: 420

Total sale of 'Magazines' is ₹28980.0

Process finished with exit code 0

//Output ends here.