```java
/*
 * To change this license header, choose License Headers in Project
Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package A2;

/**
 *
 * @author Lakshmi Priya
 */
import java.util.Scanner;

class Author2{
    private String name;
    private String email;
    private char gender;


    Author2(String name, String email, char gender)
    {
        this.name=name;
        this.email=email;
        this.gender=gender;
    }

    public String getName(){
        return name;
    }

    public String getEmail(){
        return email;
    }

    public void setEmail(String email){
        this.email=email;
    }

    public char getGender(){
        return gender;
    }

}



class Book2{
    private String name;
    private Author2 author[];
    private double price;
    private int qty=0;
    private String authorName[], authorEmail[];


    Book2(String name, Author2 author[], double price){
```

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        this.name=name;
        this.author=author;
        this.price=price;
    }

    Book2(String name, Author2 author[], double price, int qty){
        this.name=name;
        this.author=author;
        this.price=price;
        this.qty=qty;
    }

    public String getName(){
        return name;
    }


    public Author2 []getAuthor(){
        return author;
    }

    public void setPrice(double price){
        this.price=price;
    }


    public double getPrice(){
        return price;
    }


    public void setQty(int qty){
        this.qty=qty;
    }

    public int getQty(){
        return qty;
    }

    public String []getAuthorName(){
        int i=0;
        authorName=new String[author.length];
        for(Author2 a: getAuthor()){
            authorName[i]=a.getName();
            i++;
        }
        return authorName;
    }

    public String []getAuthorEmail(){
        int i=0;
        authorEmail=new String[author.length];
        for(Author2 a: getAuthor()){
            authorEmail[i]=a.getEmail();
            i++;
        }
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            return authorEmail;
        }
    }



public class TestBook2 {
    public static void main(String[] args) {
        String author, email, book;
        char gender, ch;
        double price;
        int n, num, i, qty, choice=1;
        Scanner in=new Scanner(System.in);

        System.out.println("Enter number of books: ");
        num=in.nextInt();
        Book2 BOOK[]=new Book2[num];
        for(int j=0;j<num;j++)
        {

            System.out.println("    AUTHOR DETAILS");
            System.out.println("Enter number of authors: ");
            n=in.nextInt();
            Author2 a[]=new Author2[n];
            Author2 atemp;
            for(i=0;i<n;i++){
                System.out.println("Author "+(i+1)+": ");
                System.out.println("Enter Author name: ");
                in.nextLine();
                author=in.nextLine();
                System.out.println("Enter email:");
                email=in.nextLine();
                System.out.println("Enter gender:");
                gender=in.next().charAt(0);

                atemp=new Author2(author, email, gender);
                a[i]=atemp;
            }

            Book2 b;

            System.out.println("    BOOK DETAILS");
            System.out.println("Enter Book Name: ");
            in.nextLine();
            book=in.nextLine();
            System.out.println("Enter price: ");
            price=in.nextDouble();
            System.out.println("Want to enter quantity? (y/n): ");
            ch=in.next().charAt(0);
            if (ch=='n'||ch=='N'){
                b=new Book2(book, a, price);
                BOOK[j]=b;
            }

            else {
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                System.out.println("Enter quantity: ");
                qty=in.nextInt();
                b=new Book2(book, a, price, qty);
                BOOK[j]=b;
            }



        System.out.println("Choice:\n\t1. Get Detail\n\t2. Set
Detail\n\t0. Exit\nEnter choice: ");
        choice=in.nextInt();
        while(choice!=0)
        {

            if (choice==1){
                System.out.println("   Author's Details ");
                System.out.println("*********************");
                Author2 auth[]=b.getAuthor();
                i=1;
                for(Author2 au:auth){
                    System.out.println("\t\tName   :
"+au.getName());

                    System.out.println("\t\tEmail  :
"+au.getEmail());

                    System.out.println("\t\tGender :
"+au.getGender());

                    System.out.println();
                    i++;
                }

                System.out.println("   Book Details ");
                System.out.println("******************");
                System.out.println("\t\tName     :
"+b.getName());
                System.out.println("\t\tPrice    :
"+b.getPrice());
                System.out.println("\t\tQuantity :
"+b.getQty());


                }

            else if(choice==2){
                System.out.println("Select detail to set:
\n\tAuthor:\n\t\t1. Email\n\tBook:\n\t\t2. Price\n\t\t3.
Quantity\nEnter choice: ");
                choice=in.nextInt();
                switch(choice){
                    case 1: a=b.getAuthor();
                            i=1;
                            in.nextLine();
                            for(Author2 authorRec: a){
                                System.out.println("Enter author
"+i+" email: ");

                                email=in.nextLine();
                                authorRec.setEmail(email);
                                i++;
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                                }
                                break;

                        case 2: System.out.println("Enter price: ");
                                price=in.nextDouble();
                                b.setPrice(price);
                                break;

                        case 3: System.out.println("Enter quantity: ");
                                qty=in.nextInt();
                                b.setQty(qty);
                                break;

                        default: System.out.println("Enter valid choice!!");
                    }
                }

                else
                    System.out.println("INVALID CHOICE!!");


                System.out.println("Choice:\n\t1. Get Detail\n\t2. Set Detail\n\t0. Exit\nEnter choice: ");
                choice=in.nextInt();
            }
        }



        Book2 b;

        System.out.println("\t\tBOOK DETAILS");
        for(i=0;i<BOOK.length;i++){
            b=BOOK[i];

            System.out.println("   Author's Details ");
            System.out.println("*********************");
            Author2 auth[]=b.getAuthor();

            for(Author2 au:auth){
                System.out.println("\t\tName   : "+au.getName());
                System.out.println("\t\tEmail  : "+au.getEmail());
                System.out.println("\t\tGender : "+au.getGender());
                System.out.println();
            }

            System.out.println("   Book Details ");
            System.out.println("*****************");
            System.out.println("\t\tName     : "+b.getName());
            System.out.println("\t\tPrice    : "+b.getPrice());
            System.out.println("\t\tQuantity : "+b.getQty());

System.out.println("\n_____\n");
```

```
                }
            }
        }
```