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package A2;

/**
 *
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 */
import java.util.Scanner;

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

    Author(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 Book{
    private String name;
    private Author author;
    private double price;
    private int qty=0;

    Book(String name, Author author, double price){
        this.name=name;
        this.author=author;
        this.price=price;
    }

    Book(String name, Author author, double price, int qty){
        this.name=name;
        this.author=author;
    }
}

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        this.price=price;
        this.qty=qty;
    }

    public String getName(){
        return name;
    }

    public Author 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(){
        return author.getName();
    }

    public String getAuthorEmail(){
        return author.getEmail();
    }
}

public class TestBook {
    public static void main(String[] args) {
        String author, email, book;
        char gender, ch;
        double price;
        int qty, choice=1, n;
        Scanner in=new Scanner(System.in);
        System.out.println("Enter number of books: ");
        n=in.nextInt();
        Book BOOK[]=new Book[n];

        for(int i=0; i<n; i++)
        {
            System.out.println("        AUTHOR DETAILS");

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System.out.println("Enter Author: ");
in.nextLine();
author=in.nextLine();
System.out.println("Enter email:");
email=in.nextLine();
//in.nextLine();
System.out.println("Enter gender:");
gender=in.next().charAt(0);

Author a=new Author(author, email, gender);
Book 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 Book(book, a, price);
}

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

BOOK[i]=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 Name:
"+b.getAuthorName());
        System.out.println("Author's email:
"+b.getAuthorEmail());
        System.out.println("Author's gender:
"+b.getAuthor().getGender());
        System.out.println("Book's Name: "+b.getName());
        System.out.println("Book's Author:
"+b.getAuthorName());
        System.out.println("Book's price:
"+b.getPrice());
        System.out.println("Book's quantity:
"+b.getQty());
    }
}

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

}
}
}

```