**1**

**package** main;

**import** java.time.LocalDate;

**import** java.util.ArrayList;

**import** java.util.List;

**import** java.util.Scanner;

**public** **class** Order {

**private** **int** orderID;

**private** LocalDate orderDate;

**private** List<OrderDetail> lineitems = **new** ArrayList<OrderDetail>();

**private** **int** count;

OrderDetail orde;

Product pro = **new** Product();

Scanner sc = **new** Scanner(System.***in***);

**public** Order() {

}

**public** Order(**int** orderID, LocalDate orderDate, List<OrderDetail> lineitems, **int** count) {

**this**.orderID = orderID;

**this**.orderDate = orderDate;

**this**.lineitems = **new** ArrayList<>();

**this**.count = 0;

}

**public** **int** getOrderID() {

**return** orderID;

}

**public** LocalDate getOrderDate() {

**return** orderDate;

}

**public** List<OrderDetail> getLineitems() {

**return** lineitems;

}

**public** **void** setOrderDate(LocalDate orderDate) {

**this**.orderDate = orderDate;

}

**public** **void** addLineItems(Product p, **int** quatity) {

**if** (count < 20) {

lineitems.add(**new** OrderDetail(quatity, p));

count++;

} **else** {

System.***out***.println("toi da 20 san pham cho 1 hoa don");

}

}

**public** **double** calcTotalCharge() {

**double** totalcharge = 0;

**for** (OrderDetail lineitem : lineitems) {

totalcharge += lineitem.calcTotalPrice();

}

**return** totalcharge;

}

**public** **void** Nhap() {

sc.nextLine();

System.***out***.println("Nhap ma hoa don: ");

String productID = sc.nextLine();

System.***out***.println("Nhap mo ta san pham: ");

String description = sc.nextLine();

System.***out***.println("Nhap gia san pham: ");

**double** Price = sc.nextDouble();

System.***out***.println("Nhap so luong: ");

**int** quatity = sc.nextInt();

pro = **new** Product(description, productID, Price);

addLineItems(pro, quatity);

System.***out***.println("Da tao hoa don");

}

**public** **void** in() {

System.***out***.println("Ma hoa don: " + orderID);

System.***out***.println("Ngay mua: " + orderDate.*now*());

System.***out***.println(String.*format*("%-20s|%-20s|%-20s|%-20s|%-20s",

"Ma san pham", "Mo ta san pham", "Gia", "So luong", "Thanh tien"));

**for** (OrderDetail lineitem : lineitems) {

System.***out***.println(String.*format*("%-20s|%-20s|%-20s|%-20s|%-20s",

pro.getProduct(), pro.getDescription(), pro.getPrice(), lineitem.getQuatity(), lineitem.calcTotalPrice()));

}

System.***out***.print("Tong tien: " );System.***out***.println(calcTotalCharge());

}

}

**package** main;

**public** **class** OrderDetail {

**private** **int** quatity;

**private** Product product;

**public** OrderDetail(**int** quatity, Product product) {

**this**.quatity = quatity;

**this**.product = product;

}

**public** **int** getQuatity() {

**return** quatity;

}

**public** Product getProduct() {

**return** product;

}

**public** **void** setQuatity(**int** quatity) {

**this**.quatity = quatity;

}

**public** **void** setProduct(Product product) {

**this**.product = product;

}

@Override

**public** String toString() {

**return** "OrderDetail{" + "quatity=" + quatity + ", product=" + product + '}';

}

**public** **double** calcTotalPrice()

{

**double** thanhtien = quatity \* product.getPrice();

**return** thanhtien;

}

}

**package** main;

**public** **class** Product {

**private** String description;

**private** String product;

**private** **double** price;

**public** Product() {

}

**public** Product(String description, String product, **double** price) {

**this**.description = description;

**this**.product = product;

**this**.price = price;

}

**public** String getDescription() {

**return** description;

}

**public** String getProduct() {

**return** product;

}

**public** **double** getPrice() {

**return** price;

}

**public** **void** setDescription(String description) {

**this**.description = description;

}

**public** **void** setProduct(String product) {

**this**.product = product;

}

**public** **void** setPrice(**double** price) {

**this**.price = price;

}

@Override

**public** String toString() {

**return** "Product{" + "description=" + description + ", product=" + product + ", price=" + price + '}';

}

}

**package** main ;

**import** java.util.Scanner;

**public** **class** Main {

**public** **static** **void** main(String[] args) {

Order order = **new** Order();

Scanner sc = **new** Scanner(System.***in***);

**int** menu;

**do**{

System.***out***.println("1. Nhap");

System.***out***.println("2. In");

System.***out***.println("Lua chon: ");

menu = sc.nextInt();

**switch**(menu){

**case** 1:

order.Nhap();

**break**;

**case** 2:

order.in();

**break**;

**default**:

}

}**while**(menu!=0);

}

}