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```
import java.util.Scanner;
public class EcommerceSystem {
    public static void main(String[] args) {
        Scanner input= new Scanner(source:System.in);
        ElectronicProduct smartphone =new ElectronicProduct(productId:1,name: "smartphone", (float) 599.9,brand: "samsung",warrantyPeriod: 1);
        ClothingProduct tshirt= new ClothingProduct(productId:2,name: "T-shirt",(float)19.99, size: "medium", fabric:"cotton");
        BookProduct oop= new BookProduct (productId:3,name: "oop",(float)39.99,author:"O'Reilly",publisher:"XPublicatiens");
        System.out.println(x: "Enter your id :");
        int customerId= input.nextInt();
        input.nextLine();
        System.out.println(x: "Enter your name");
        String customerName= input.nextLine();
        System.out.println(x: "Enter your address");
        String address= input.nextLine();
        Customer customer = new Customer(customerId:customerId,name: customerName,address);
        System.out.println(x: "How many products do you want to order?");
        int numProduct =input.nextInt();
        Product[]Products=new Product[numProduct];
        Cart cart=new Cart(customerId: customerId,nProducts:numProduct,Products);
        for(int i=0; i<numProduct;i++){
            System.out.println(x: "Enter product type (1 for electronic , 2 for clothing , 3 for book)");
            int producttype=input.nextInt();
            switch(producttype){
                case 3:
                    cart.addProduct(product: oop, index: i);
                    break;
                case 2:
                    cart.addProduct(product: tshirt, index: i);
                    break;
                case 1:
                    cart.addProduct(product: smartphone, index: i);
                    break;
                default:
                            System.out.println(x: "invalid");
                            break;}
        }
        System.out.println(x: "do you want to place an order?(1 for yes , 2 for no)");
```

```
        for(int i=0; i<numProduct;i++){
            System.out.println(x: "Enter product type (1 for electronic , 2 for clothing , 3 for book)");
            int producttype=input.nextInt();
            switch(producttype){
                case 3:
                    cart.addProduct(product: oop, index: i);
                    break;
                case 2:
                    cart.addProduct(product: tshirt, index: i);
                    break;
                case 1:
                    cart.addProduct(product: smartphone, index: i);
                    break;
                default:
                            System.out.println(x: "invalid");
                            break;}
        }
        System.out.println(x: "do you want to place an order?(1 for yes , 2 for no)");
        int choice=input.nextInt();
        switch(choice){
            case 1:
                cart.placeOrder();
                break;
            case 2:
                System.out.println(x: "the order is cancelled");
                break;
            default:
                System.out.println(x: "invalid");
                break;

        }
    }

}
```

```java
 */
package javaapplication26;
public class Product {
    protected int productId;
    protected String name;
    protected float price;

    public int getProductId() {
        return productId;
    }
    public string getName() {
        return name;
    }
    public float getPrice() {
        return price;
    }
    public void setProductId(int product) {
      if(productId>=0){
        this.productId = productId;}
      else
          this.productId=Math.abs(product);
    }
    public void setName(String name) {
        this.name = name;
    }
    public void setPrice(float price) {
        if(price>=0)
        this.price = price;
        else
            this.price=Math.abs(price);}
    public Product(int productId, String name, float price) {
        this.productId = Math.abs(productId);
        this.name = name;
        this.price = Math.abs(price);
    }

}
```

```java
/**
 * @author Nour
 */
public class ElectronicProduct extends Product {
    private String brand;
    private int warrantyPeriod;

    public ElectronicProduct(int productId, String name, float price, String brand , int warrantyPeriod) {
        super(productId, name, price);
        this.brand=brand;
        this.warrantyPeriod=Math.abs(a: warrantyPeriod);
    }

    public String getBrand() {
        return brand;
    }

    public int getWarrantyPeriod() {
        return warrantyPeriod;
    }

    public void setBrand(String brand) {
        this.brand = brand;
    }

    public void setWarrantyPeriod(int warrantyPeriod) {
      if(warrantyPeriod>=0)
        this.warrantyPeriod = warrantyPeriod;
      else
          this.warrantyPeriod=Math.abs(a: warrantyPeriod);
    }
}
```

```java
/**
 *
 * @author Nour
 */
public class ClothingProduct extends Product {
    private  String size;
    private String fabric;

    public ClothingProduct(int productId, String name, float price, String size, String fabric) {
        super(productId, name, price);
        this.fabric=fabric;
        this.size=size;
    }

    public String getSize() {
        return size;
    }

    public void setSize(String size) {
        this.size = size;
    }

    public String getFabric() {
        return fabric;
    }

    public void setFabric(String fabric) {
        this.fabric = fabric;
    }


}
```

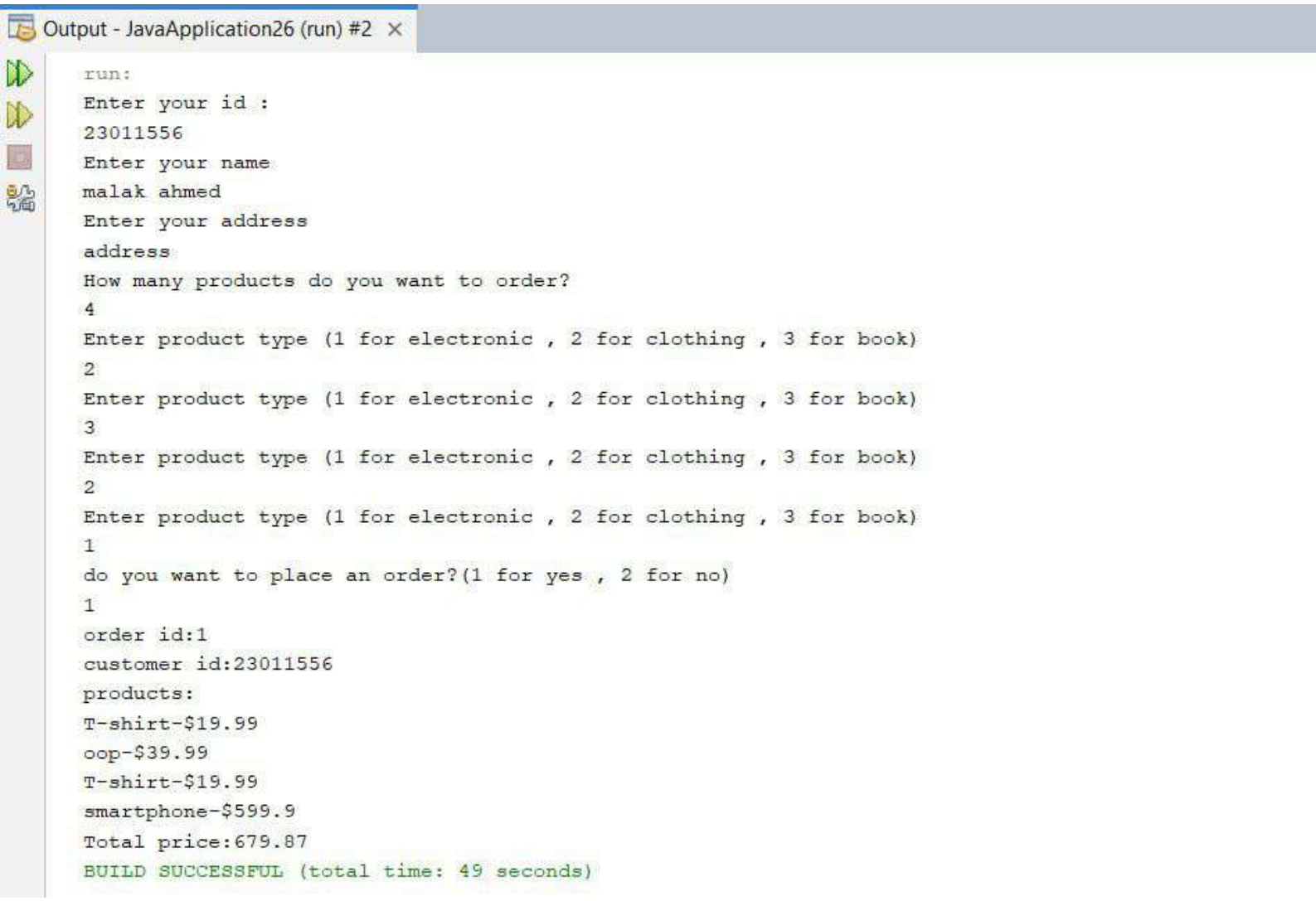
```java
/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template
 */
package javaapplication26;
public class BookProduct extends Product {
   private  String author;
   private  String publisher;

    public BookProduct(int productId, String name, float price, String author, String publisher) {
        super(productId, name, price);
        this.author=author;
        this.publisher=publisher;
    }

    public String getAuthor() {
        return author;
    }

    public void setAuthor(String author) {
        this.author = author;
    }

    public String getPublisher() {
        return publisher;
    }

    public void setPublisher(String publisher) {
        this.publisher = publisher;
    }

}
```

```java
 * @author Nour
 */
public class Customer {
    private int customerid;
    private String name ;
    private String address;

    public int getCustomerid() {
        return customerid;
    }

    public void setCustomerid(int customerid) {
        if(customerid>=0)
        this.customerid = customerid;
        else
            this.customerid=Math.abs(customerid);
    }
    public String getName() {
        return name;
    }
    public void setName(String name) {
        this.name = name;
    }
    public String getAddress() {
        return address;
    }
    public void setAddress(String address) {
        this.address = address;
    }
    public Customer(int customerid, String name, String address) {
        this.customerid = Math.abs(customerid);
        this.name = name;
        this.address = address;
    }
    }

```

```java
package javaapplication26;
public class Cart {
    private int customerid;
    private int nProducts;
   private  Product[] Products;
   public int getCustomerid() {
        return customerid;
    }
    public void setCustomerid(int customerid) {
        if(customerid>=0)
        this.customerid = customerid;
        else
            this.customerid=Math.abs(a: customerid);
    }
    public int getnProducts() {
        return nProducts;
    }
    public void setnProducts(int nProducts) {
        this.nProducts = Math.abs(a: nProducts);
    }
    public Product[] getProducts() {
        return Products;
    }
    public void setProducts(Product[] Products) {
        this.Products =new  Product[this.nProducts];
    }
     public Cart(int customerid, int nProducts, Product[]Products) {
        this.customerid = customerid;
        this.nProducts = nProducts;
        this.Products=Products;
    }
    public void addProduct(Product product, int index){
    if (index>=0 && index< nProducts)
        Products[index]=product;
    else
            System.out.println(x: "invalid");
    }
```

```
    }
    public void setnProducts(int nProducts) {
        this.nProducts = Math.abs( nProducts);
    }
    public Product[] getProducts() {
        return Products;
    }
    public void setProducts(Product[] Products) {
        this.Products =new  Product[this.nProducts];
    }
     public Cart(int customerid, int nProducts, Product[]Products) {
        this.customerid = customerid;
        this.nProducts = nProducts;
        this.Products=Products;
    }
    public void addProduct(Product product, int index){
    if (index>=0 && index< nProducts)
        Products[index]=product;
    else
            System.out.println( "invalid");
    }
    public void removeProduct(int index){
        if(index >=0&&index<nProducts)
            Products[index]=null;
        else
            System.out.println( "invalid");
    }
    public float calculatePrice(){
    float totalPrice=0;
    for(int i=0;i< nProducts;i++){
        if (Products[i]!=null)
            totalPrice=totalPrice +Products[i].getPrice();}
    return totalPrice;}
    public void placeOrder(){
    Order order=new Order(customerId: customerid,orderId: 1,products: Products,totalprice: calculatePrice());
    order.printorderinfo();}
}
```

```java
package javaapplication26;
public class Order {
     private int customerId;
     private int orderId;
     private Product[] products;
     private float totalprice;
    public int getCustomerId() {
        return customerId;
    }
    public void setCustomerId(int customerId) {
        this.customerId = customerId;
    }
    public int getOrderId() {
        return orderId;
    }
    public void setOrderId(int orderId) {
        this.orderId = orderId;
    }
    public float getTotalprice() {
        return totalprice;
    }
    public void setTotalprice(float totalprice) {
        this.totalprice = totalprice;
    }
    public Order(int customerId, int orderId, Product[] products, float totalprice) {
        this.customerId = Math.abs(a: customerId);
        this.orderId = orderId;
        this.products = products;
        this.totalprice = totalprice;}
    public void printorderinfo(){
    System.out.println("order id:"+orderId);
        System.out.println("customer id:"+customerId);
        System.out.println(x: "products:");
        for(Product product : products){
        System.out.println(product.getName()+"-$"+product.getPrice());
        }
        System.out.println("Total price:"+totalprice);}}
```


Output - JavaApplication26 (run) #2
run:
Enter your id :
23011556
Enter your name
malak ahmed
Enter your address
address
How many products do you want to order?
4
Enter product type (1 for electronic , 2 for clothing , 3 for book)
2
Enter product type (1 for electronic , 2 for clothing , 3 for book)
3
Enter product type (1 for electronic , 2 for clothing , 3 for book)
2
Enter product type (1 for electronic , 2 for clothing , 3 for book)
1
do you want to place an order?(1 for yes , 2 for no)
1
order id:1
customer id:23011556
products:
T-shirt-$19.99
oop-$39.99
T-shirt-$19.99
smartphone-$599.9
Total price:679.87
BUILD SUCCESSFUL (total time: 49 seconds)