```
package Ecommercesystem;
import java.util.Scanner:
  import javax.swing.JOptionPane;
  * Gauthor Dell
 public class EcommerceSystem {
       * @param args the command line arguments
      public static void main(String[] args) (
         Scanner input=new Scanner (source: System.in);
           ElectronicProduct el= new ElectronicProduct(brend: "Samsung", warantyPeriod: 1, productId: 1, neme: "smartphone", (float) 599.9);
           ClothingProduct c1= new ClothingProduct(size: "Medium", febric: "Cotton", productId: 2, neme: "T-shirt", (float) 19.99);
           BookProduct b1 = new BookProduct (author: "O Reilly", publisher: "X Publications", productId: 3, name: "OOP", (float) 39.99);
           System.out.println(x: "Welcome to E-commerce system!");
           System.out.println(x: "Please enter your id");
           int customerId = input.nextInt();
           System.out.println(x: "Please enter your name");
           String name=input.next();
           System.out.println(x: "Please enter your address");
           String address= input.next();
           Customer me = new Customer(customerId, name, address);
           System.out.println(x: "How many products you want to add to your cart?");
           int num= input.nextInt();
           Cart cart = new Cart(customerId: me.getcustomerid(), nProducts: num);
           Product [] arr = new Product[num];
           for(int i =0 ;i<cart.getnProducts();i++) {</pre>
           System .cut.println("Which product you want to add? 1-" +el.getname() + " 2-" +cl.getname() + " 3-" +bl.getname()):
```

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```
System.out.println(x: "How many products you want to add to your cart?");
int num= input.nextInt();
Cart cart = new Cart(customerId: me.getcustomerid(),nProducts:num);
Product [] arr = new Product[num];
for(int i =0 ;i<cart.getnProducts();i++){</pre>
System.out.println("Which product you want to add? 1-" +e1.getname() + " 2-" +c1.getname() + " 3-" +b1.getname());
int choice = input.nextInt();
Product product=null;
switch (choice) {
    case 1:
       product=e1;
       break;
    case 2:
       product=c1;
       break;
    case 3:
       product=b1;
       break;
    default:
       System.out.println(x: "invalid choice");
       continue;
cart.addProduct(product);
System.out.println("Your total is " +cart.calculatePrice() + "$");
cart.PlaceOrder(orderid: 1);
```

```
public class BookProduct extends Product {
    private String author;
 private String publisher;
   public BookProduct(String author, String publisher, int productId, String name, float price) {
        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;
```

```
public class Order {
    int customerId;
    int orderId;
    Product [] arr;
    float TotalPrice;
     public Order(int customerId, int orderId, Product [] arr) {
        this.customerId = Math.abs(a: customerId);
       this.orderId = Math.abs(a: orderId);
       this.arr=arr;
       TotalPrice = 0.0f;
       for (Product product : arr) {
           TotalPrice += product.getprice();
    public void printOrderInfo() {
       System.out.println("Order ID: " + orderId);
        System.out.println("Customer ID: " + customerId);
        System.out.println(x: "Products:");
        for (Product product : arr) {
               System.out.println(product.getname() + ": $ " + product.getprice());
        }
        System.out.println("Total Price: $" + TotalPrice);
```

```
public class Product {
private int productId;
    private String name;
    private float price;
    public Product(int productId, String name, float price) {
       this.productId = productId;
        this.name = name;
       this.price = price;
    public void setproductid(int id) {
       if(id>0){
           this.productId=id;
       }
       else{
           int z=Math.abs(a: id);
           this.productId=z;
    public void setname(String name) {
       this.name=name;
    public void setprice( float p) {
        if(p>0){
            this.price=p;
       }
        else{
            float z = Math.abs(a: p) ;
           this.price=z;
```

```
public void setname(String name) {
     this.name=name;
}
public void setprice( float p) {
     if(p>0){
       this.price=p;
     else{
        float z = Math.abs(a: p);
       this.price=z;
     }
}
public int getproductid() {
    return productId;
public String getname() {
    return name;
public float getprice() {
    return price;
}
```

```
public class ClothingProduct extends Product {
    private String size;
    private String fabric;

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

public String getSize() {
        return size;
    }

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

public String getFabric() {
        return fabric;
    }

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

```
public class Customer {
   private int customerId;
    private String name;
  private String address;
   public Customer(int customerId, String name, String address) {
      this.customerId = customerId;
       this.name = name;
       this.address = address;
    public void setcustomerId(int id) {
       if(id>0){
           this.customerId=id;
       }
       else{
           int z= Math.abs(a: id);
          this.customerId=z;
    public int getcustomerid() {
       return customerId;
    public String getName() {
      return name;
    public void setName(String name) {
      this.name = name;
    public String getAddress() {
```

```
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 class ElectronicProduct extends Product {
   private String brand;
private int warantyPeriod;
   public BlectronicProduct(String brand, int warantyPeriod, int productId, String name, float price) {
       super(productId, name, price);
       this.brand = brand;
       this.warantyPeriod = warantyPeriod;
    }
    public void setbrand(String brand) {
       this.brand=brand;
    public void setwarantyperiod( int p){
       if(p>0){
           this.warantyPeriod=p;
       else{
           int z =Math.abs(&: p);
           this.warantyPeriod=z;
    public String getbrand() {
       return brand;
   public int getwarantyperiod() {
        return warantyPeriod;
```

```
public class ClothingProduct extends Product {
    private String size;
    private String fabric;

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

public String getSize() {
        return size;
    }

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

public String getFabric() {
        return fabric;
    }

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

```
public class Cart {
   private int customerId;
   private int nProducts;
   private Product [] arr;
   public Cart(int customerId, int nProducts) {
       this.customerId = customerId;
       this.nProducts = nProducts;
       this.arr = new Product[nProducts];
    Scanner input=new Scanner (source: System.in);
    public void setcustomerid(int id) {
       if(id>0){
       this.customerId=id;
       }
       else{
        int z = Math.abs(a: id);
          this.customerId=z;
   public void setnProducts(int n) {
       if(n>0){
          this.nProducts=n;
        else{
           int z = Math.abs(a: n);
           this.nProducts=z;
```

```
public void setnProducts(int n) {
    if(n>0) {
        this.nProducts=n;
    }
    else{
        int z = Math.abs(a: n);
        this.nProducts=z;
    }
}

public int getCustomerId() {
    return customerId;
}

public int getnProducts() {
    return nProducts;
}
```

```
public void addProduct(Product product) {
        arr[i] = product;
public void removeProduct(Product product) {
    for (int i = 0; i< arr.length; i++)
        if(arr[i]== product) {
        nProducts--;
        }
        else(
           System.out.println(x: "Product not found");
public float calculatePrice() {
     float totalPrice = 0.0f;
     for (Product product : arr) {
        totalPrice += product.getprice();
    return totalPrice;
}
public Order PlaceOrder(int orderid) {
    Order order = new Order(customerId, orderId: 1, arr);
    System.out.println(x: "Would you like to place your order ");
    System.out.println(x: "1- Yes 2- No");
    int choice=input.nextInt();
    if(choice==1){
        System.out.println(x: "Here is your order summary: ");
```

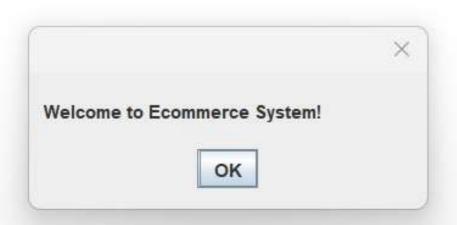
int i = 0;

Output - EcommerceSystem (run)

D

0

```
run:
Welcome to E-commerce system!
Please enter your id
23011160
Please enter your name
 malak
Please enter your address
 alex
How many products you want to add to your cart?
 Which product you want to add? 1-smartphone 2-T-shirt 3-OOP
 Which product you want to add? 1-smartphone 2-T-shirt 3-OOP
 Which product you want to add? 1-smartphone 2-T-shirt 3-OOP
 Which product you want to add? 1-smartphone 2-T-shirt 3-OOP
 Your total is 679.87$
 Would you like to place your order
 1- Yes 2- No
 Here is your order summary :
 Order ID: 1
 Customer ID: 23011160
 Products:
 smartphone: $ 599.9
 T-shirt: $ 19.99
 OOP: $ 39.99
 T-shirt: $ 19.99
 Total Price: $679.87
 Thank you for your shopping :)
BUILD SUCCESSFUL (total time: 11 seconds)
```

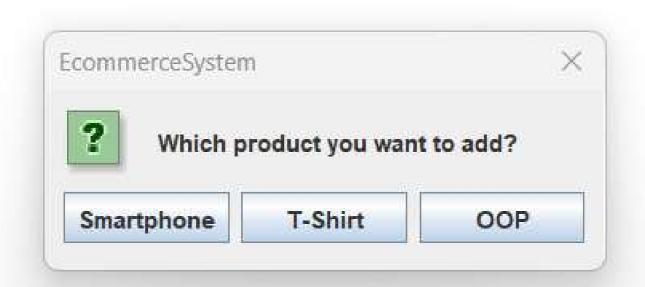


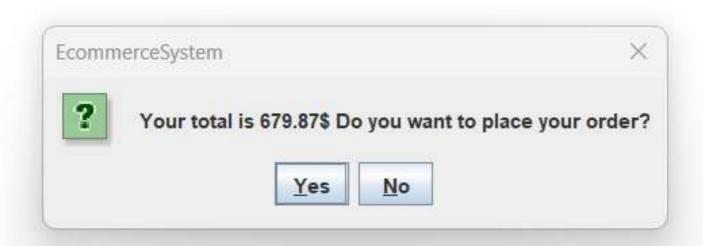
















Here is your order's summary :

Order Id: 1

Customer Id 23011160

Products: T-shirt \$ 19.99smartphone \$ 599.9OOP \$ 39.99T-shirt \$ 19.99

Total Price: \$ 679.87

