Main:

```
public static void main(String[] args) {
    ClothingProduct p2=new ClothingProduct( Productld: 2, name: "T-shirt", price: 19.99F, size: "Medium", fabric: "cotton");
    BookProduct p3=new BookProduct( Productid: 3, name: "00P", price: 39.99F, author: "0'Reilly", publisher: "X publications");
    System.out.println("please enter your name");
    String name= in.next();
    System.out.println("please enter yor id");
    int id=in.nextInt();
    c1.setCustomerId(id);
    String address= in.next();
    c1.setAddress(address);
    o1.setCustomerId(id);
        int choice=in.nextInt();
        switch (choice){
               cart.addProduct(p2,i);
               o1.setProduct(p3,i);
    int choice2=in.nextInt();
```

OUTPUT:

```
please enter your name
please enter yor id
please enter your address
sidi gaber
how many products you want to add?
which product would you like to add? 1-smartphone 2-T-shirt 3-00P
which product would you like to add? 1-smartphone 2-T-shirt 3-00P
which product would you like to add? 1-smartphone 2-T-shirt 3-00P
which product would you like to add? 1-smartphone 2-T-shirt 3-00P
your total is 679.87 Would you like to place order? 1-Yes 2-No
order is placed
here is your order summary:
order id: 1
customer id: 23011604
products:
T-shirt- $19.99
T-shirt- $19.99
smartphone- $599.9
total is 679.87
```

Product class:

Electroniic product:

Clothing product:

Book product:

Customer:

Cart:

```
public void removeProduct(Product productToRemove){
    int newSize=products.length;
    for (int \underline{i}=0;\underline{i}<products.length;\underline{i}++){
         if (products[i] == productToRemove){
             newSize--;
         } else if (\underline{i} < \underline{newSize}) {
public float calculatePrice(){
    float totalPrice=0;
    for (Product product : products) {
         totalPrice += product.getPrice();
    return totalPrice;
public void placeOrder(int choice){
         System.out.println("order is placed");
         System.out.println("order is not placed");
         System.out.println("Total is:"+calculatePrice());
```

Order:

```
public class Order {
2 usages
  protected Product[] products;
        totalPrice+=newProduct.getPrice();
   public void orderInfo() {
       orderId++;
       System.out.println("order id: " + orderId);
       System.out.println("customer id: " + customerId + "\nproducts:\n");
       for (Product product : products) {
           System.out.println(product.getName() + "- $" + product.getPrice());
       System.out.println("total is " + totalPrice);
```