```java
import java.util.Scanner;

public class E_commercesystem {

  /**
   * @param args the command line arguments
   */
  public static void main(String[] args) {
    // TODO code application logic here
    Scanner  input = new Scanner(System.in);


    System.out.println("Welcome to the E-commerce System!");
    System.out.println(" Please enter your ID:");
    int customerId = input.nextInt();
    input.nextLine();
    System.out.println("Enter your name:");
    String name = input.nextLine();
    System.out.println("Enter your address:");
    String address = input.nextLine();
    customer customer = new customer(customerId, name, address);


    System.out.println("How many products do you want to order?");
    int nProducts = input.nextInt();
    cart cart = new cart(customerId, nProducts);
    for (int i = 0; i < nProducts; i++) {
     System.out.println("Which product whould you like to add 1-smartphone 2-T-shirt 3-oop");
     int add = input.nextInt();
       switch(add){
       case 1:electronicproduct test1=new electronicproduct ("Samsung",1,1,"smartphone",599.9f);
```

```java
            cart.addproduct(test1, i);

            break;

           case 2:

            clothingproduct test2 =new  clothingproduct("Medium","Cotton",2,"T-Shirt",19.99f);

            cart.addproduct(test2, i);

            break;

           case 3:

            Bookproduct test3 =new Bookproduct("O'Reilly","X Publications",3,"oop",39.99f);

            cart.addproduct(test3, i);

            break;

           default:

              System.out.println("it is not an option");

          }


     }System.out.println("Your total is $" +cart.calculateprice()+" "+"Whould you like to place the order?
1-Yes 2-No");

        int  response = input.nextInt();

        if (response==1){

        System.out.println("here your order summary");

        cart.placeorder(response);

        }else if (response==2){

         System.out.println("");

}

   }}


/*
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 * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template
 */
```

```java
/**
 *
 * @author REEM
 */
public class product {
    protected int productid;
    protected String name;
    protected float price;

    public product(int productid, String name, float price) {
        this.productid = productid;
        this.name = name;
        this.price = price;
    }

    /**
     * @return the productid
     */
    public int getProductid() {
        return productid;
    }

    /**
     * @param productid the productid to set
     */
    public void setProductid(int productid) {
        this.productid = productid;
    }
```

```java
/**
 * @return the name
 */
public String getName() {
    return name;
}

/**
 * @param name the name to set
 */
public void setName(String name) {
    this.name = name;
}

/**
 * @return the price
 */
public float getPrice() {
    return price;
}

/**
 * @param price the price to set
 */
public void setPrice(float price) {
    this.price = price;
}
```

```java
}
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 */

/**
 *
 * @author REEM
 */
public class electronicproduct extends product {
    private String brand;
    private int warrantyperiod;

    public electronicproduct(String brand, int warrantyperiod, int productid, String name, float price) {
        super(productid, name, price);
        this.brand = brand;
        this.warrantyperiod = warrantyperiod;
    }

    /**
     * @return the brand
     */
    public String getBrand() {
        return brand;
    }

    /**
```

```java
     * @param brand the brand to set
     */
    public void setBrand(String brand) {

        this.brand = brand;

    }


    /**
     * @return the warrantyperiod
     */
    public int getWarrantyperiod() {

        return warrantyperiod;

    }


    /**
     * @param warrantyperiod the warrantyperiod to set
     */
    public void setWarrantyperiod(int warrantyperiod) {

        this.warrantyperiod = warrantyperiod;

    }

}
/*
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 */

/**
 *
 * @author REEM
```

```java
 */
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;

   }


   /**

    * @return the size

    */

   public String getSize() {

      return size;

   }


   /**

    * @param size the size to set

    */

   public void setSize(String size) {

      this.size = size;

   }


   /**

    * @return the fabric

    */

   public String getFabric() {
```

```java
        return fabric;

    }


    /**
     * @param fabric the fabric to set
     */
    public void setFabric(String fabric) {

        this.fabric = fabric;

    }


}
/*
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 */


/**
 *
 * @author REEM
 */
public class Bookproduct extends product {

    private String auther;

    private String publisher;


    public Bookproduct(String auther, String publisher, int productid, String name, float price) {

        super(productid, name, price);

        this.auther = auther;

        this.publisher = publisher;

    }
```

```java
/**
 * @return the auther
 */
public String getAuther() {

    return auther;

}


/**
 * @param auther the auther to set
 */
public void setAuther(String auther) {

    this.auther = auther;

}


/**
 * @return the publisher
 */
public String getPublisher() {

    return publisher;

}


/**
 * @param publisher the publisher to set
 */
public void setPublisher(String publisher) {

    this.publisher = publisher;

}
```

```java
}
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 */

/**
 *
 * @author REEM
 */
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;
    }

    /**
     * @return the customerid
     */
    public int getCustomerid() {
        return customerid;
    }

    /**
```

```java
 * @param customerid the customerid to set
 */
public void setCustomerid(int customerid) {

    this.customerid = customerid;

}


/**
 * @return the name
 */
public String getName() {

    return name;

}


/**
 * @param name the name to set
 */
public void setName(String name) {

    this.name = name;

}


/**
 * @return the address
 */
public String getAddress() {

    return address;

}


/**
 * @param address the address to set
```

```java
 */
    public void setAddress(String address) {

        this.address = address;

    }


}
/*

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 */


/**

 *

 * @author REEM

 */
public class cart {

    private int customerId;

    private int nProducts;

    private product[] products;


    public cart(int customerId, int nProducts) {

        this.customerId = Math.abs(customerId);

        this.nProducts = Math.abs(nProducts);

        this.products = new product[nProducts];

    }
```

```java
public int getCustomerId() {

    return customerId;

}


public void setCustomerId(int customerId) {

    this.customerId = customerId;

}


public int getnProducts() {

    return nProducts;

}


public void setnProducts(int nProducts) {

    this.nProducts = nProducts;

}


public product[] getProducts() {

    return products;

}


/**
 */
public void setProducts(product[] products) {

    this.products = products;

}


public void addproduct(product product, int index) {

    if (index >= 0 && index < nProducts) {

        products[index] = product;
```

```java
        }

    }


    public void removeproduct(int index) {


        if (index >= 0 && index < nProducts) {

            products[index] = null;



        }



    }



    public float calculateprice() {

        float totalprice = 0;

        for (product product : products) {

            if (product != null) {

                totalprice += product.getPrice();

            }

        }


        return totalprice;


//      for (int i=0; i<nproduct;i++ ){

//          totalprice +=products[i].getPrice();

//   }

//      return totalprice;

    }


    public void placeorder(int orderid) {
```

```java
        order o = new order(Math.abs(customerId), orderid, products,calculateprice());

         o.printOrderInfo();

    }
}/*
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 */

/**
 *
 * @author REEM
 */
public class order {

    private int customerid;
  private int orderid;
   private product [] products;
   private float totalprice;
   public order(int customerid, int orderid, product[] products, float totalPrice) {
      this.customerid = Math.abs(customerid);
      this.orderid = Math.abs(orderid);
      this.products = products;
      this.totalprice =Math.abs(totalPrice);
   }




   public void printOrderInfo() {
      System.out.println("Order ID: " + orderid);
```

```java
        System.out.println("Customer ID: " + customerid);

        System.out.println("Products:");

        for (product product : products) {


            System.out.println( product.getName()+"" +product.getPrice()+"$");

        }


        System.out.println("Total Price: $" + totalprice);

    }


    /**


    */


}
```