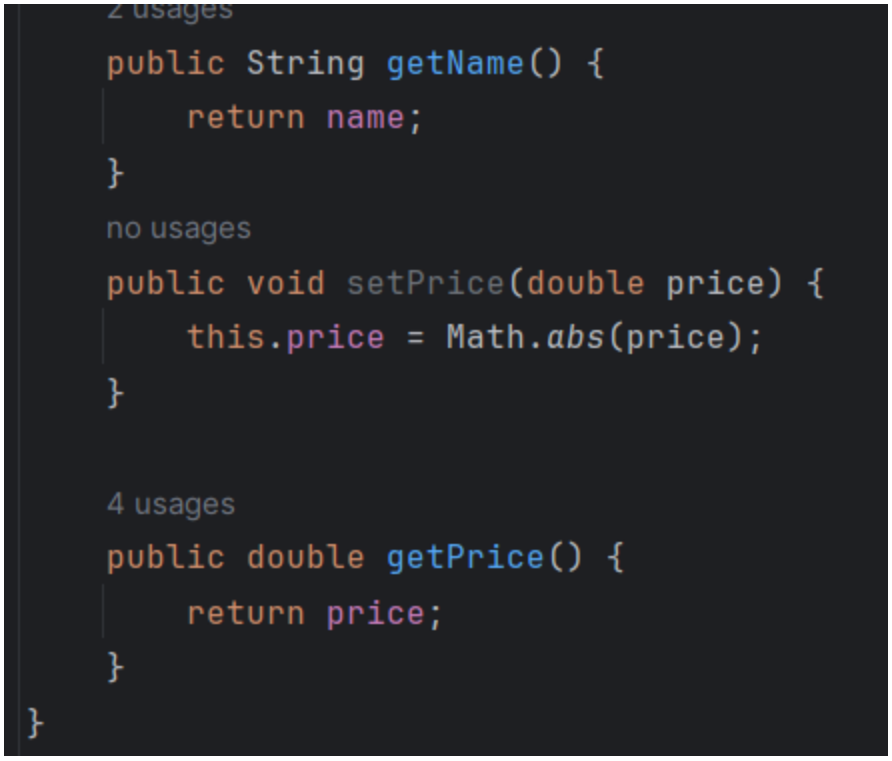
```java
class Product {
    3 usages
    private int proid;
    3 usages
    private String name;
    3 usages
    private double price;

    3 usages
    public Product(int proid, String name, double price) {
        this.proid = Math.abs(proid);
        this.name = name;
        this.price = Math.abs(price);
    }
    no usages
    public int getProid() {
        return proid;
    }
    no usages
    public void setProid(int proid) {
        this.proid = Math.abs(proid);
    }
    no usages
    public void setName(String name) {
        this.name = name;
    }
    2 usages
    public String getName() {
        return name;
```


2 usages
public String getName() {
return name;
}
no usages
public void setPrice(double price) {
this.price = Math.abs(price);
}
4 usages
public double getPrice() {
return price;
}
}

```java
class Elecprod extends Product {
    3 usages
    private String brand;
    3 usages
    private int warr;

    1 usage
    public Elecprod(int proid, String name, double price, String brand, int warr) {
        super(proid, name, price);
        this.brand = brand;
        this.warr = Math.abs(warr);
    }
    no usages
    public String getBrand() {
        return brand;
    }

    no usages
    public void setBrand(String brand) {
        this.brand = brand;
    }

    no usages
    public int getWarr() {
        return warr;
    }

    no usages
    public void setWarr(int warr) {
        this.warr = Math.abs(warr);
    }
}
```

```java
class Clothprod extends Product {
    3 usages
    private String size;
    3 usages
    private String fab;

    1 usage
    public Clothprod(int productId, String name, double price, String size, String fab) {
        super(productId, name, price);
        this.size = size;
        this.fab = fab;
    }
    no usages
    public String getSize() {
        return size;
    }

    no usages
    public void setSize(String size) {
        this.size = size;
    }

    no usages
    public String getFab() {
        return fab;
    }

    no usages
    public void setFab(String fab) {
        this.fab = fab;
    }
}
```

```java
class Bookprod extends Product {
    3 usages
    private String author;
    3 usages
    private String publi;

    1 usage
    public Bookprod(int proid, String name, double price, String author, String publi) {
        super(proid, name, price);
        this.author = author;
        this.publi = publi;
    }
    no usages
    public String getAuthor() {
        return author;
    }

    no usages
    public void setAuthor(String author) {
        this.author = author;
    }

    no usages
    public String getPubli() {
        return publi;
    }

    no usages
    public void setPubli(String publi) {
        this.publi = publi;
    }
}
```

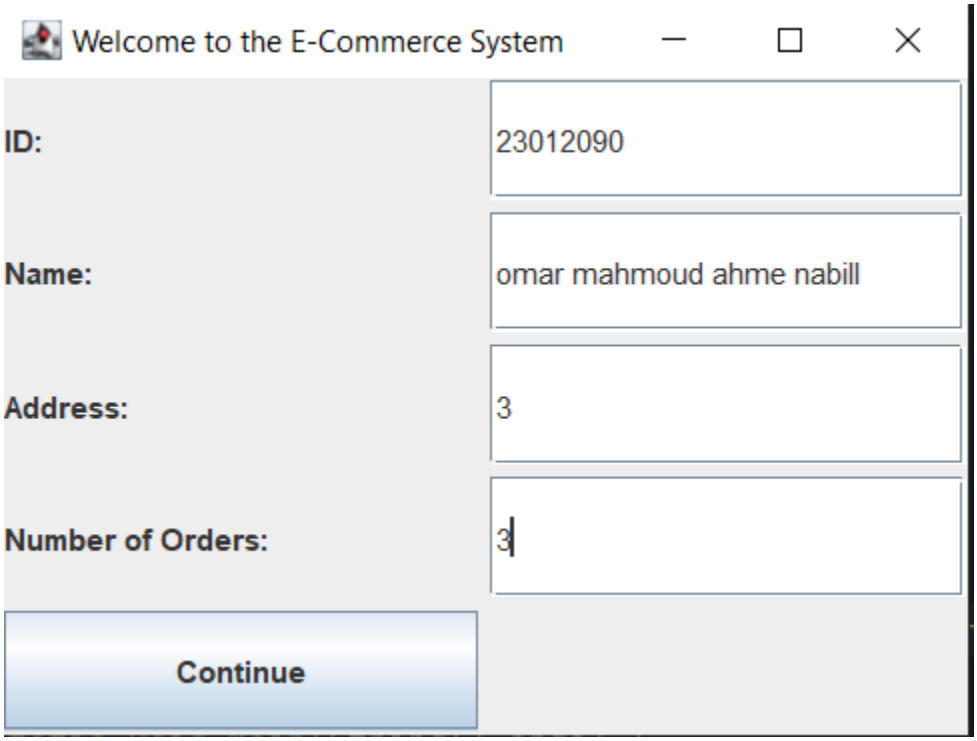
```java
class Cart {
    4 usages
    private int cusid;
    8 usages
    private int prod;
    11 usages
    private Product[] arr;

    1 usage
    public Cart(int cusid) {
        this.cusid = Math.abs(cusid);
        this.prod = 0;
        this.arr = new Product[10];
    }
    no usages
    public int getCusid() {
        return cusid;
    }

    no usages
    public void setCusid(int cusid) {
        this.cusid = Math.abs(cusid);
    }

    1 usage
    public int getProd() {
        return prod;
    }

    no usages
    public void setProd(int prod) {
        this.prod = Math.abs(prod);
```

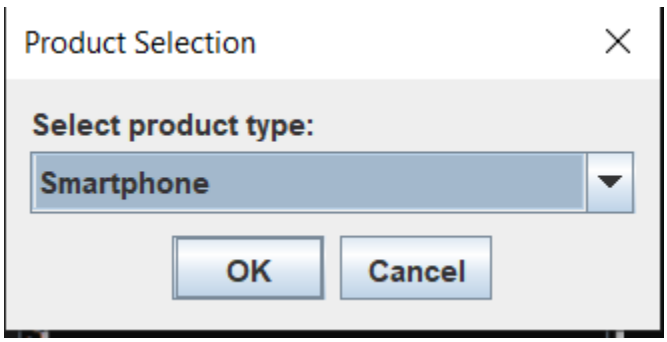
```java
no usages
public Product[] getArr() {
    return arr;
}

no usages
public void setArr(Product[] arr) {
    this.arr = arr;
}

3 usages
public void addProd(Product brr) {
    if (prod < arr.length) {
        arr[prod++] = brr;
    } else {
        // Expand array size if needed
        Product[] temp = new Product[arr.length * 2];
        System.arraycopy(arr, srcPos: 0, temp, destPos: 0, arr.length);
        temp[prod++] = brr;
        arr = temp;
    }
}
```

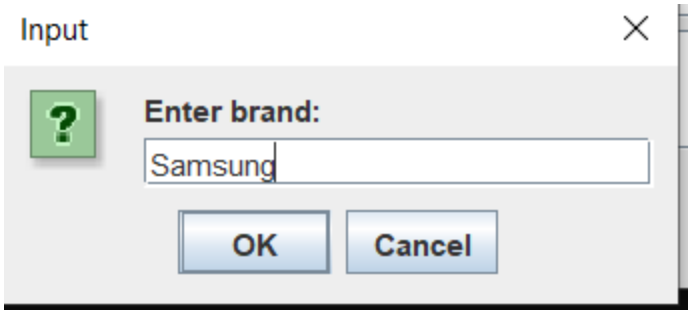
```
class Order {
    4 usages
    private int cusid;
    5 usages
    private int ordid;
    5 usages
    private Product[] arr;
    4 usages
    private double ans;
    no usages
    public Order(int cusid, int ordid, Product[] arr,double ans) {
        this.cusid = Math.abs(cusid);
        this.ordid = Math.abs(ordid);
        this.ans=Math.abs(ans);
        this.arr = arr;
        this.ans = calc();
    }
    no usages
    public int getCusid() {
        return cusid;
    }
    no usages
    public void setCusid(int customerId) {
        this.cusid = Math.abs(customerId);
    }

    no usages
    public int getOrdid() {
        return ordid;
    }
    no usages
```

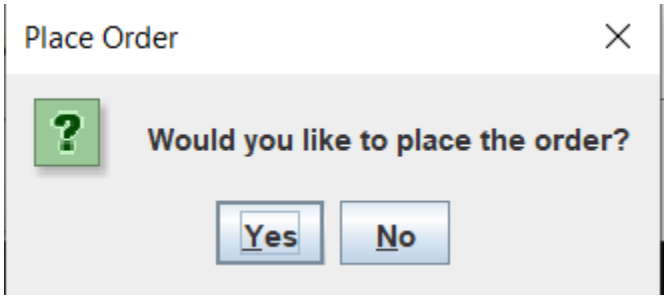
```java
public void setOrdid(int ordid) {
    this.ordid = Math.abs(ordid);
}

no usages
public Product[] getArr() {
    return arr;
}
no usages
public void setArr(Product[] arr) {
    this.arr = arr;
}
no usages
public double getAns() {
    return ans;
}
no usages
public void setAns(double ans) {
    this.ans = ans;
}
1 usage
public double calc() {
    double cntr = 0;
    for (int i = 0; i < ordid; i++) {
        cntr += arr[i].getPrice();
    }
    return cntr;
}
```

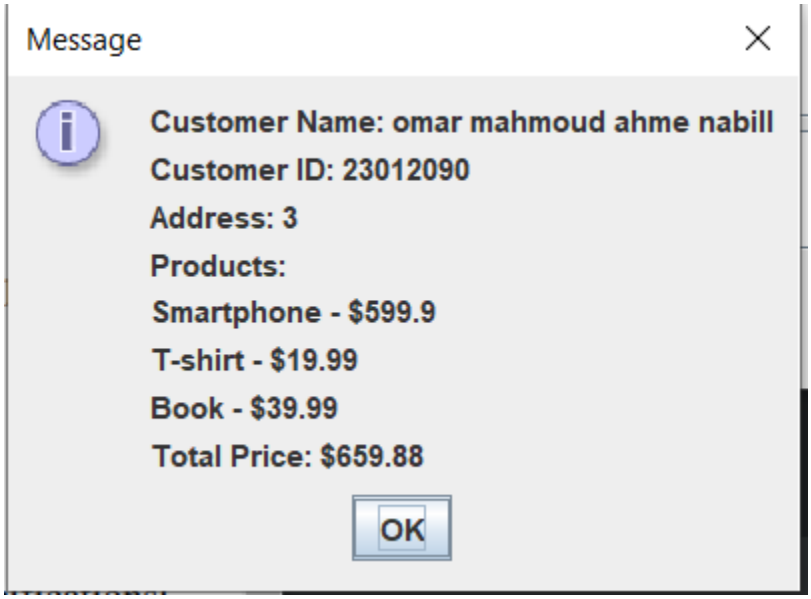
```java
public String gerord(String name, String address, double cntr) {
    StringBuilder s = new StringBuilder();
    s.append("Customer Name: ").append(name).append("\n");
    s.append("Customer ID: ").append(cusid).append("\n");
    s.append("Address: ").append(address).append("\n");
    s.append("Products:").append("\n");

    for (int i = 0; i < prod; i++) {
        Product brr = arr[i];
        s.append(brr.getName()).append(" - $").append(brr.getPrice()).append("\n");
    }

    s.append("Total Price: $").append(cntr);
    return s.toString();
}
```

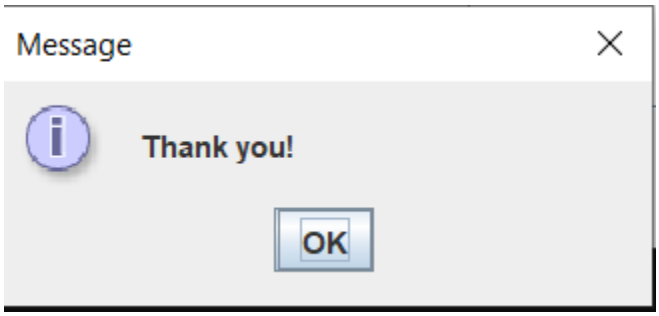





Input
Enter brand:
Samsung
OK
Cancel


Place Order
Would you like to place the order?
Yes
No


Message
Customer Name: omar mahmoud ahme nabill
Customer ID: 23012090
Address: 3
Products:
Smartphone - $599.9
T-shirt - $19.99
Book - $39.99
Total Price: $659.88
OK


Message
Thank you!
OK