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I am confirming that I have completed this lab completely based on the requirements and it is working and fully functional.

Screenshots:

Main.java

```
no usages
public class Main {
    no usages
    public static void main(String[] args) {

        Invoice invoice = new Invoice( invoiceNO: "20230112001",
                                       description: "iPhone14 Pro",
                                       quantity: 2,
                                       price: 1499.99);

        System.out.printf("-----Invoice-----\n" +
                           "InvoiceNo.  %19s\n" +
                           "Description %19s\n" +
                           "Quantity    %19d\n" +
                           "Price(each) %19.2f\n\n" +
                           "Total price %19.2f\n",
                           invoice.getInvoiceNO(), invoice.getDescription(),
                           invoice.getQuantity(), invoice.getPrice(),
                           invoice.getInvoiceAmount());

        System.out.print("-----");
    }
}
```

Invoice.java

```
public class Invoice {  
    /** attributes */  
    3 usages  
    private String invoiceNO;  
    3 usages  
    private String description;  
    5 usages  
    private int quantity;  
    5 usages  
    private double price;  
  
    /** constructor */  
    1 usage  
    public Invoice(String invoiceNO, String description, int quantity, double price)  
    {  
        this.invoiceNO = invoiceNO;  
        this.description = description;  
        this.quantity = quantity;  
        this.price = price;  
  
        // set quantity to 0 if the number is not valid  
        if (quantity <= 0) { this.quantity = 0; }  
  
        // set price to 0.0 if the number is not valid  
        if (price <= 0) { this.price = 0.0; }  
    }  
}
```

```

    /** get and set methods */
    // set methods
    no usages
    public void setInvoiceNO(String invoiceNO)    { this.invoiceNO = invoiceNO; }
    no usages
    public void setDescription(String description) { this.description = description; }
    no usages
    public void setQuantity(int quantity)        { this.quantity = quantity; }
    no usages
    public void setPrice(double price)           { this.price = price; }

    // get methods
    1 usage
    public String getInvoiceNO()    { return invoiceNO; }
    1 usage
    public String getDescription() { return description; }
    1 usage
    public int    getQuantity()     { return quantity; }
    1 usage
    public double getPrice()        { return price; }

    /** calculate total price method */
    1 usage
    public double getInvoiceAmount() { return quantity * price; }
}

```

Outputs:

```

-----Invoice-----
InvoiceNo.          20230112001
Description          iPhone14 Pro
Quantity              2
Price(each)          1499.99

Total price          2999.98
-----

```

Invalid number:

```
Invoice invoice = new Invoice( invoiceNO: "20230112001",  
                                description: "iPhone14 Pro",  
                                quantity: -1,  
                                price: 1499.99);
```

```
-----Invoice-----  
InvoiceNo.          20230112001  
Description          iPhone14 Pro  
Quantity              0  
Price(each)          1499.99  
  
Total price          0.00  
-----
```

```
Invoice invoice = new Invoice( invoiceNO: "20230112001",  
                                description: "iPhone14 Pro",  
                                quantity: 2,  
                                price: -300);
```

-----Invoice-----

InvoiceNo. 20230112001

Description iPhone14 Pro

Quantity 2

Price(each) 0.00

Total price 0.00
