Testing

Task 1: Write the test-cases

Test Number	Reason for test	Customer name	Item(s)	Quantity	Expected o/p	Actual O/P	Test passed/failed
1	Customer Name: can not be empty	None	milk	1	The name of the customer can not be empty!	The name of the customer can not be empty!	passed
2	Customer Name: must be a string	lulu	milk	1	Please input the phone number of customer (empty is acceptable)	Please input the phone number of customer (empty is acceptable)	passed
3	Item(s): can not be empty	lulu	None	1	This input is invalid!	This input is invalid!	passed
4	Item(s): must be selected from the available list of items in the software	lulu	milk	None	The item must be selected from the available list.	Exception in thread "main" java.lang.NullPointerException	failed
5	Quantity: can be empty	lulu	milk	None	This input is invalid!	This input is invalid!	passed
6	Quantity: must be a whole number	lulu	milk	1.1	This input is invalid!	This input is invalid!	passed

Note: The Order Date and Order Time are automatically generated when the order is created, and do not need to be entered manually.

Task 2: Perform white-box testing

1-2: Customer Name: can not be empty and must be a string

```
Please input the name and quantity of one item (e.g. milk,1): (input 'end' is to finish)
milk,1
Please input the name and quantity of one item (e.g. milk,1): (input 'end' is to finish)
end
Please input the name of customer:

The name of customer can not be empty!
Please input the name of customer:
12345
Please input letter as Name!
Please input the name of customer:
lulu
Please input the phone number of customer (empty is acceptable):
```

3-4: Item(s): can not be empty and must be selected from the available list of items in the software

```
Please input the name and quantity of one item (e.g. milk,1): (input 'end' is to finish)
 ,1
This input is invalid!
Please input the name and quantity of one item (e.g. milk,1): (input 'end' is to finish)
fish,1
Exception in thread "main" java.lang.NullPointerException
    at main.BakeShop.createOrderInterface(BakeShop.java:352)
    at main.BakeShop.main(BakeShop.java:147)

Process finished with exit code 1
```

5-6: Quantity: can not be empty and must be a whole number

```
Please input the name and quantity of one item (e.g. milk,1): (input 'end' is to finish)
milk
This input is invalid!
Please input the name and quantity of one item (e.g. milk,1): (input 'end' is to finish)
milk,
This input is invalid!
Please input the name and quantity of one item (e.g. milk,1): (input 'end' is to finish)
milk,1.1
This input is invalid!
Please input the name and quantity of one item (e.g. milk,1): (input 'end' is to finish)
```

Note: The Order Date and Order Time are automatically generated when the order is created, and do not need to be entered manually.

```
=======================================================
|                        order                        |
|   order number: 210                                 |
|name of the item|total cost of the item|quantity|
|      Milk      |           2          |   1    |
|   order created by: Yinzhe Cheng                    |
|   order date: 11/07/2020                            |
|   order time: 22:28:47                              |
|   order status: READY                               |
|   customer name : lulu                              |
|   phone Num: (01)69866767                           |
|   order type: advance                               |
|   total cost: 2                                     |
=======================================================
```