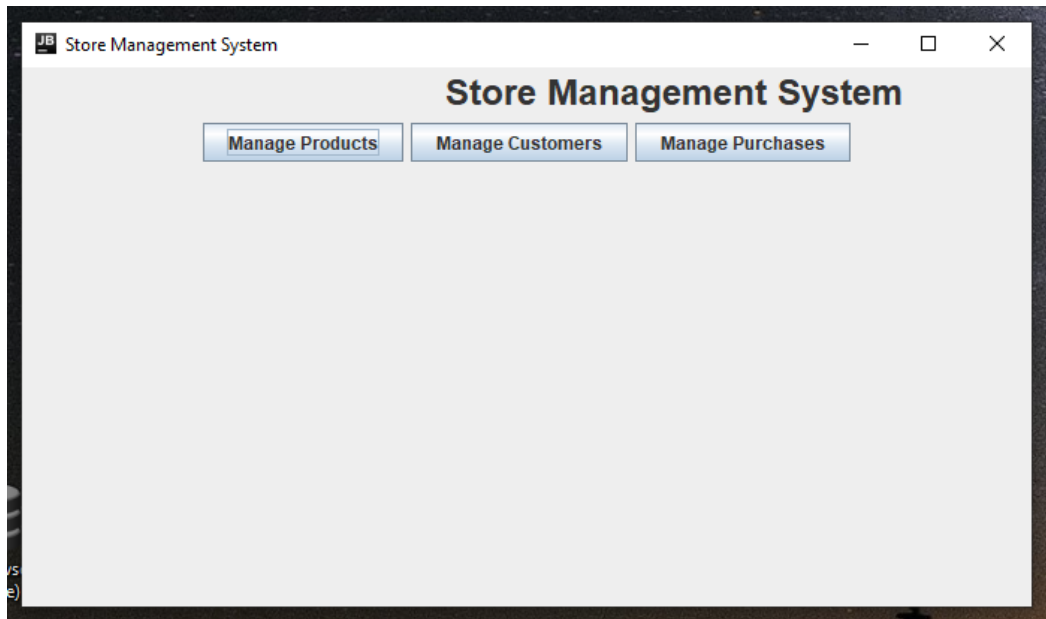


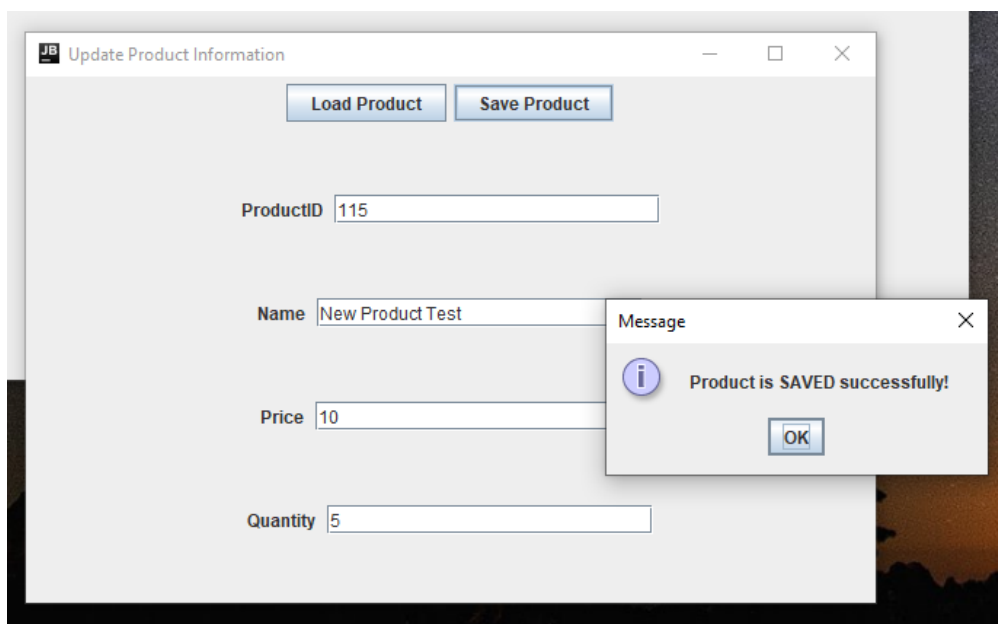
Running the server:

```
"C:\Program Files\JetBrains\IntelliJ IDEA Community Edition  
Server is listening at port = 1000
```

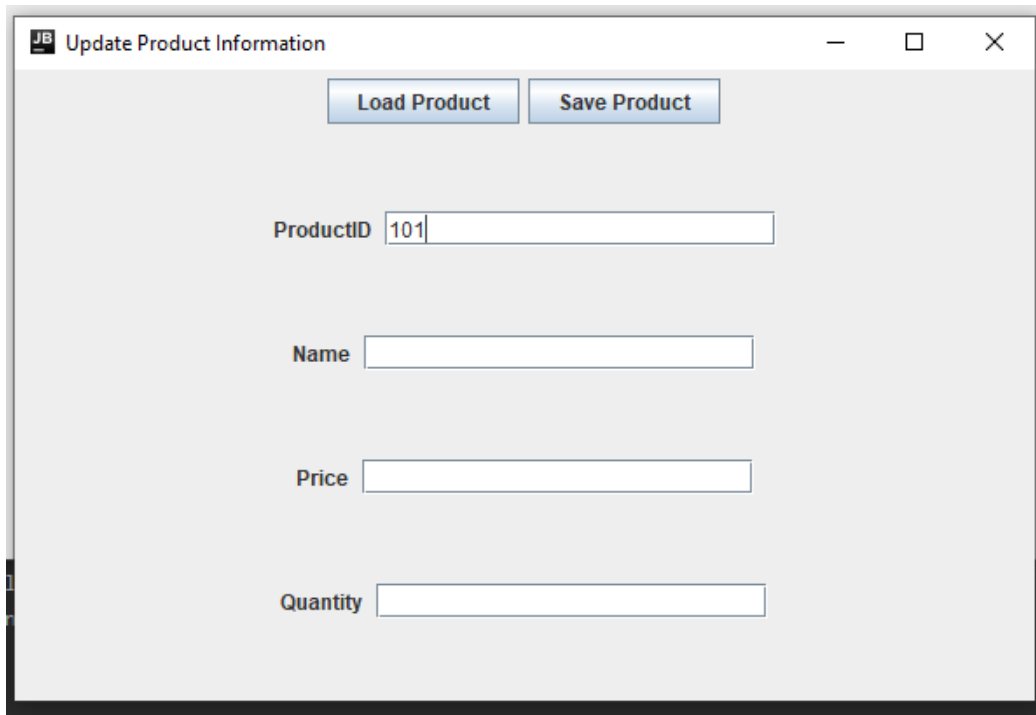
Running the user interface:



Adding a new product:

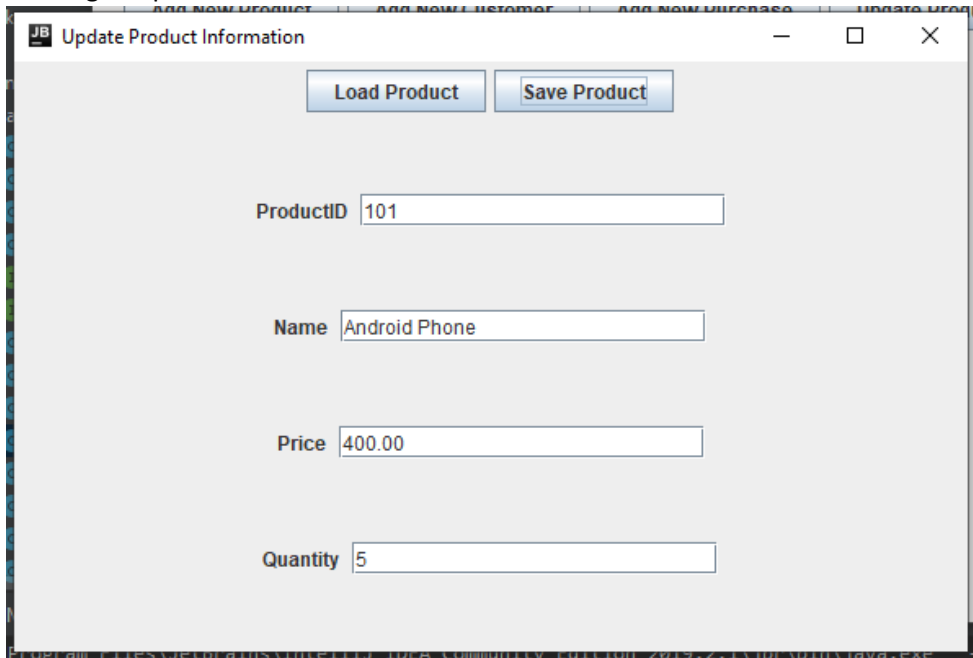


Loading an existing product (main screen):



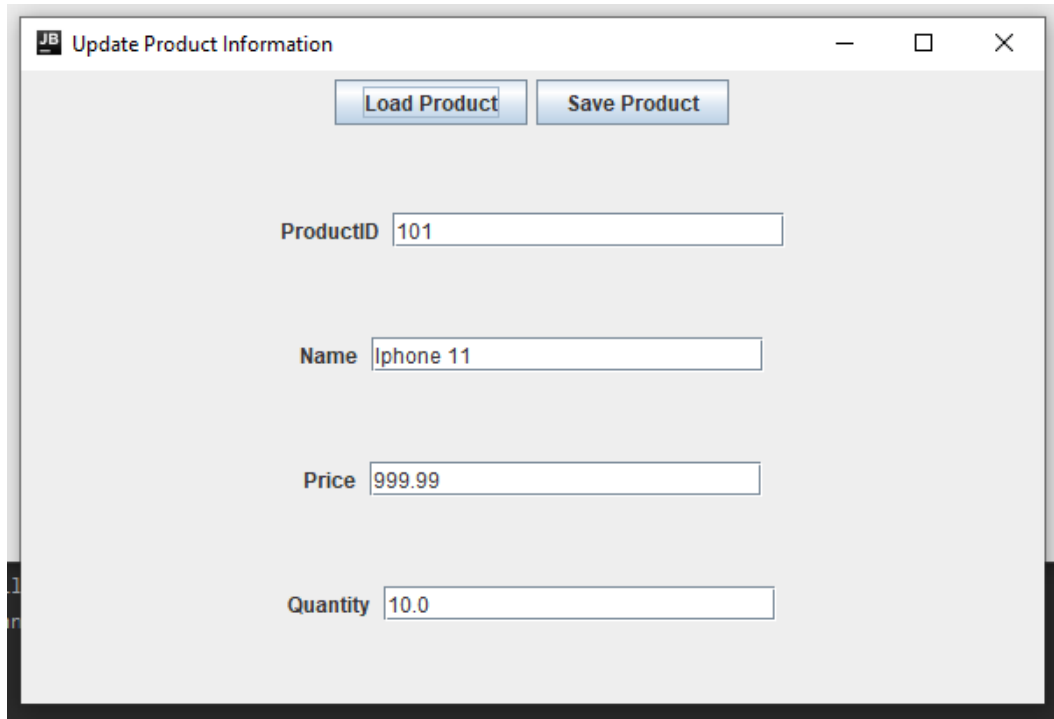
The screenshot shows a window titled "Update Product Information" with a standard Windows title bar (minimize, maximize, close buttons). Inside the window, there are two buttons at the top: "Load Product" and "Save Product". Below these buttons, there are four input fields, each with a label to its left: "ProductID" (containing the text "101"), "Name", "Price", and "Quantity". All input fields are currently empty except for the "ProductID" field which contains "101".

Loading the product with ProductId "101":



This screenshot shows the same "Update Product Information" window after loading the product with ProductID "101". The "Load Product" button is still visible. The input fields now contain the following data: "ProductID" is "101", "Name" is "Android Phone", "Price" is "400.00", and "Quantity" is "5". The window title bar and the "Save Product" button remain the same as in the previous screenshot.

Update with new information:



JB Update Product Information

Load Product Save Product

ProductID 101

Name Iphone 11

Price 999.99

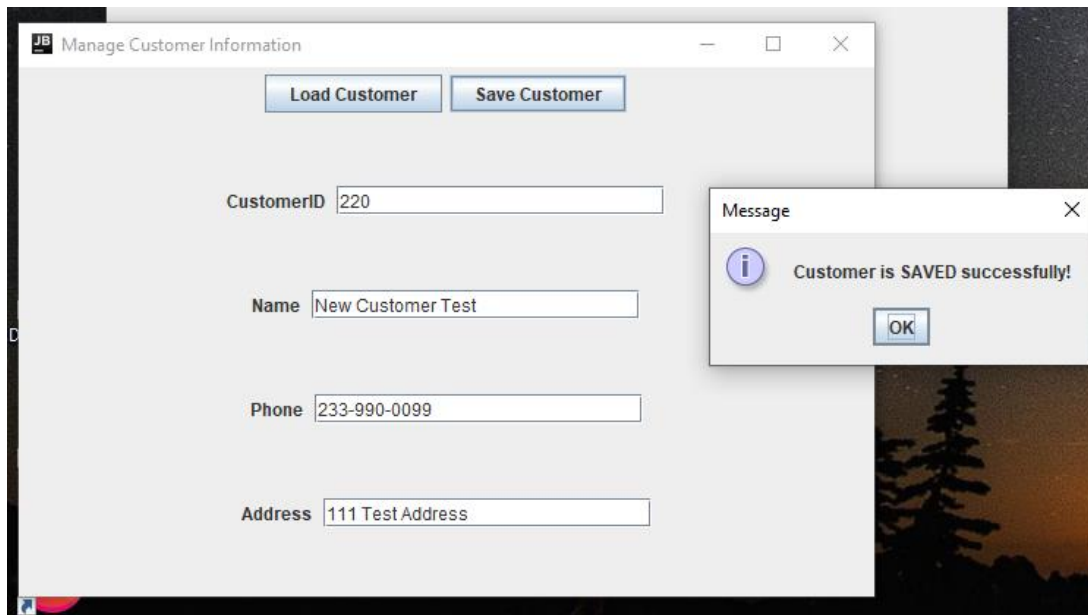
Quantity 10.0

Updated database file for products:

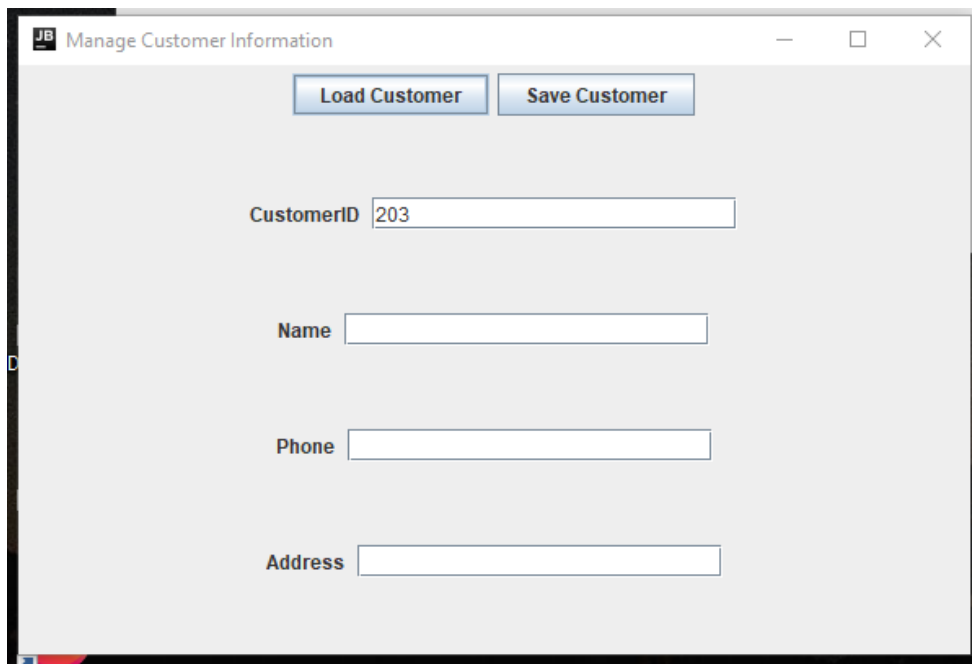
Table: Products Refresh Filter Print New Record Delete

	ProductID	Name	Price	Quantity
	Filter	Filter	Filter	Filter
1	101	Iphone 11	999.99	10
2	102	Macbook Air	1400	17
3	103	Apple	1.23	44
4	104	Banana	4.55	98
5	105	Pear	3.22	25
6	106	iphone11	66	44
7	115	New Product ...	10	5

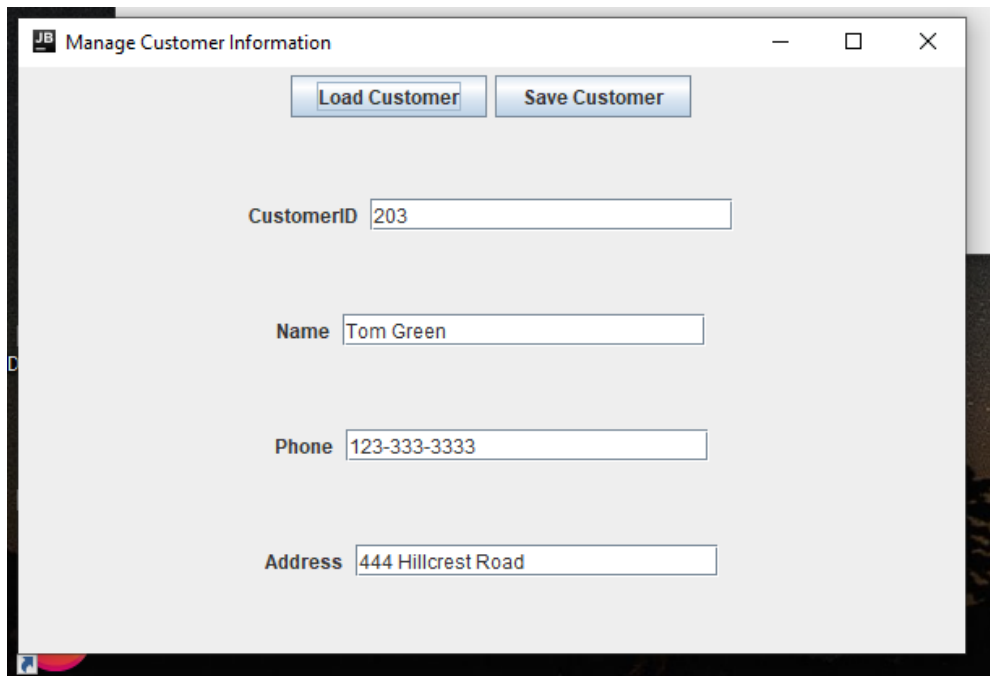
Adding a New Customer:



Loading Existing Customer (203):

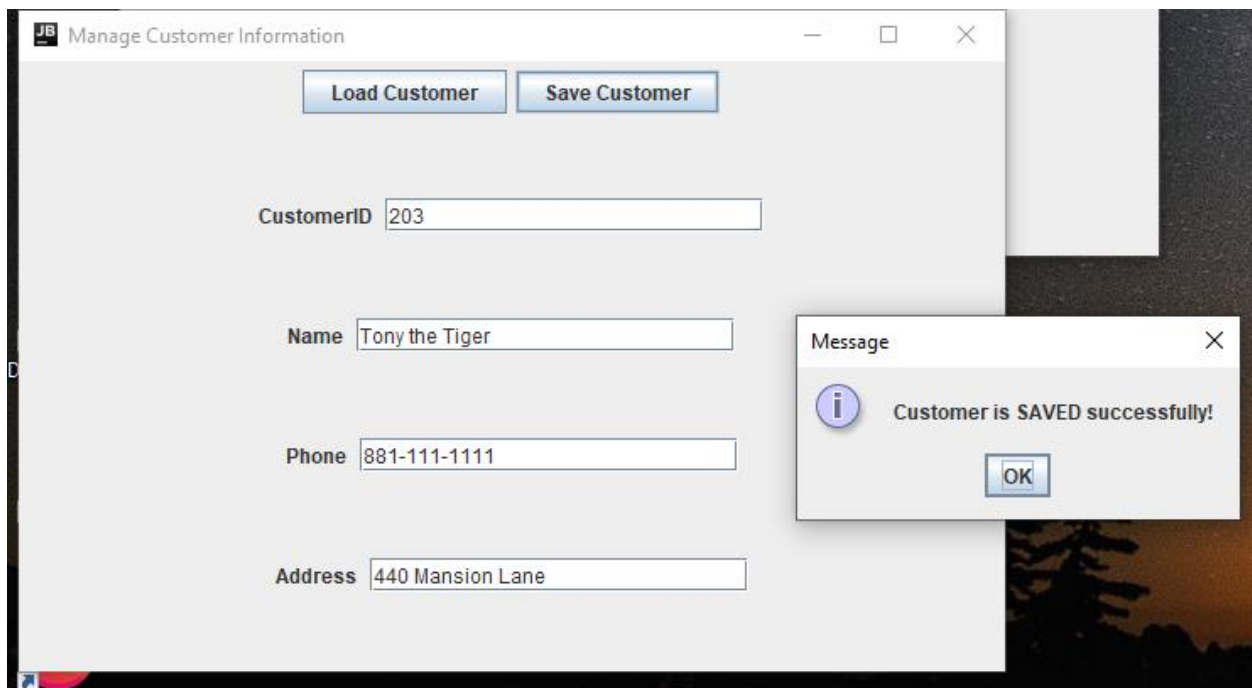


Information is auto-filled:



The screenshot shows a window titled "Manage Customer Information" with a standard Windows title bar (minimize, maximize, close buttons). At the top, there are two buttons: "Load Customer" and "Save Customer". Below these are four text input fields, each with a label to its left: "CustomerID" containing "203", "Name" containing "Tom Green", "Phone" containing "123-333-3333", and "Address" containing "444 Hillcrest Road".

Update fields and clicking "save customer"



This screenshot shows the same "Manage Customer Information" window, but the data has been updated. The "Name" field now contains "Tony the Tiger" and the "Address" field now contains "440 Mansion Lane". The "CustomerID" and "Phone" fields remain the same. A small "Message" dialog box is overlaid on the bottom right of the window. The dialog has a title bar with a close button, an information icon, and the text "Customer is SAVED successfully!". At the bottom of the dialog is an "OK" button.

Database with new data:

Table: Customers				
	CustomerId	Name	Phone	Address
	Filter	Filter	Filter	Filter
1	202	Jane Doe	222-333-4444	122 College St.
2	203	Tony the Tiger	440 Mansion ...	881-111-1111
3	204	Mike Ryan	456-586-4837	334 Miami Lane
4	205	Lex Luther	555-009-0098	221 Scott Lane
5	220	New Customer T...	111 Test Addr...	233-990-0099

Adding a New Purchase:

Add Purchase

PurchaseID 323

Date of purchase: Thu Nov 21 00:18:14 CST 2019

CustomerID 205

Product Name: Lex Luther

ProductID 104

Product Name: Banana

Quantity 4

Product Price: 4.55





Cost: \$18.20 Tax: \$1.64 Total: \$19.84

Message

Purchase added successfully!(323,205,104,4.55,4.0,18.2,1.638,19.838,"Thu Nov 21 00:18:14 CST 2019")

OK

Database file with new purchase:

Table: Purchases     New Record Delete Record

	PurchaseId	CustomerId	ProductId	Price	Quantity	Cost	Tax	Total	Date
	Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter
1	301	201	101	799.99	2	1599.98	143.9982	1743.9782	Tue Oct 08 19...
2	302	202	104	4.55	2	9.1	0.819	9.919	Wed Oct 16 2...
3	303	204	104	4.55	1	4.55	0.4095	4.9595	Wed Oct 16 2...
4	304	205	102	1400	7	9800	882	10682	Wed Oct 16 2...
5	305	201	103	1.23	2	2.46	0.2214	2.6814	Wed Oct 16 2...
6	306	203	103	1.23	3	3.69	0.3321	4.0221	Wed Oct 16 2...
7	307	205	102	1400	1	1400	126	1526	Wed Oct 16 2...
8	308	205	105	3.22	7	22.54	2.0286	24.5686	Wed Oct 16 2...
9	309	204	101	999.99	3	2999.97	269.9973	3269.9673	Wed Oct 16 2...
10	310	203	104	4.55	1	4.55	0.4095	4.9595	Wed Oct 16 2...
11	323	205	104	4.55	4	18.2	1.638	19.838	Thu Nov 21 0...