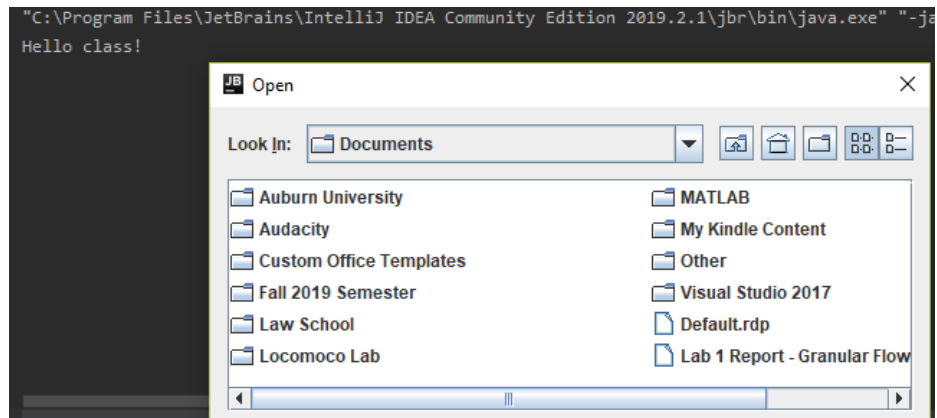
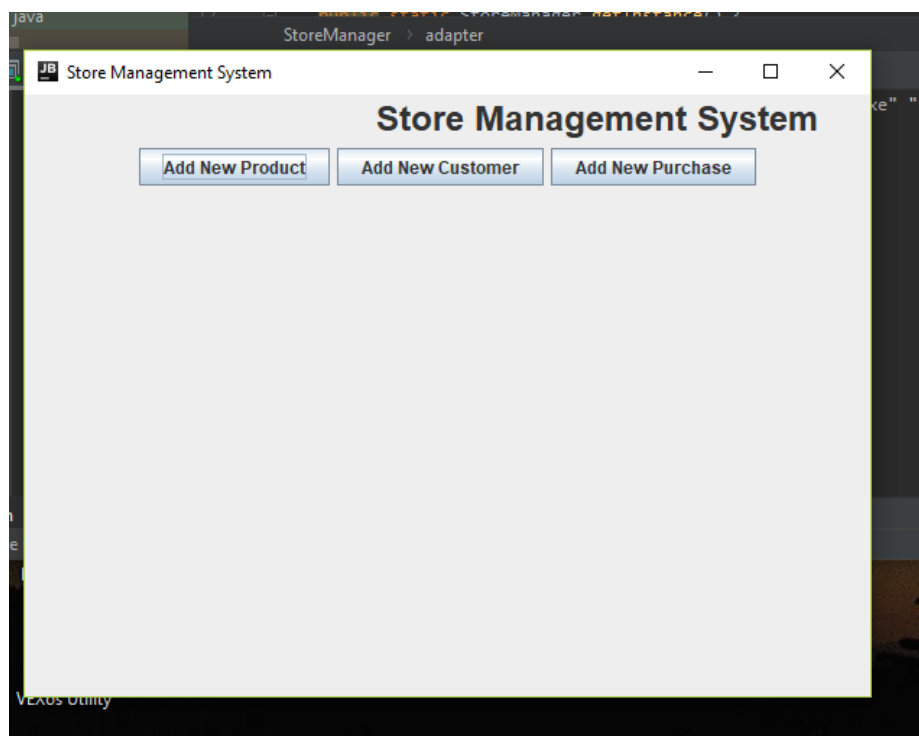


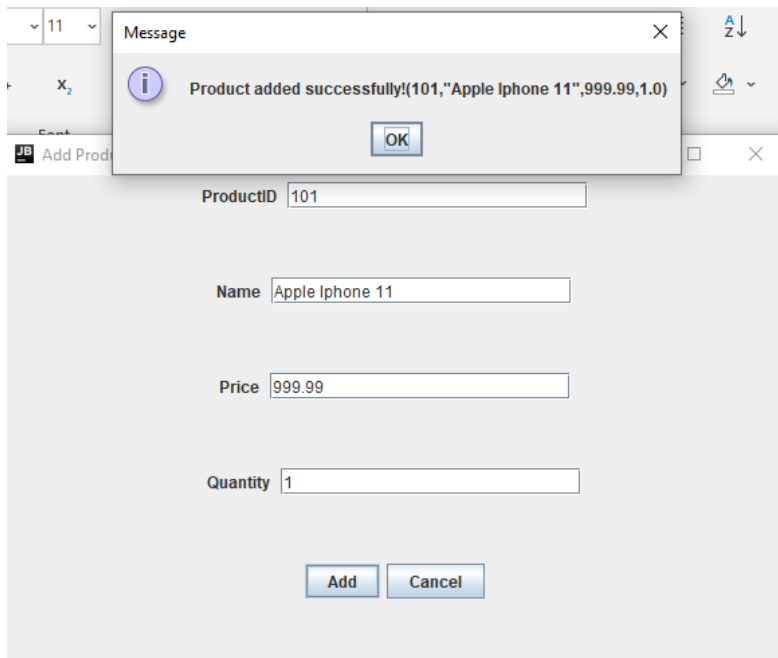
## Basic Startup



```
"C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2019
Hello class!
Connection to SQLite has been established.
```

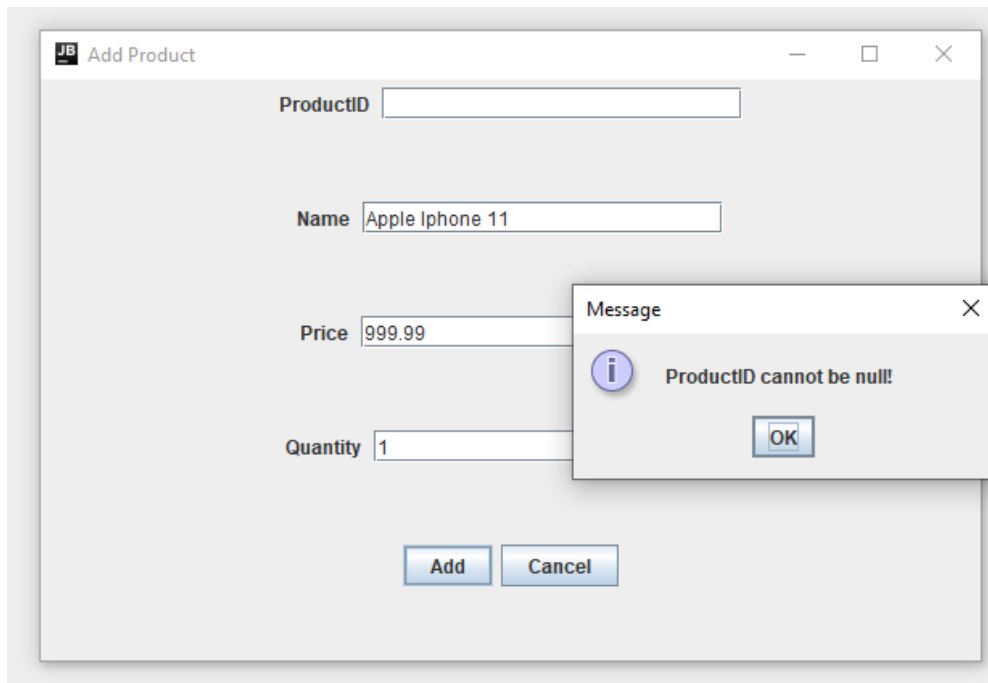


### Common Use Case #1:



A screenshot of a software application window titled "JB Add Product". The window contains four text input fields: "ProductID" with the value "101", "Name" with the value "Apple Iphone 11", "Price" with the value "999.99", and "Quantity" with the value "1". At the bottom of the window are two buttons: "Add" and "Cancel". A "Message" dialog box is overlaid on top of the main window. The dialog box has a title bar with "Message" and a close button. It contains an information icon (i) and the text "Product added successfully!(101,\"Apple Iphone 11\",999.99,1.0)". Below the text is an "OK" button.

### Exception Case #1:



A screenshot of a software application window titled "JB Add Product". The window contains four text input fields: "ProductID" (empty), "Name" with the value "Apple Iphone 11", "Price" with the value "999.99", and "Quantity" with the value "1". At the bottom of the window are two buttons: "Add" and "Cancel". A "Message" dialog box is overlaid on top of the main window. The dialog box has a title bar with "Message" and a close button. It contains an information icon (i) and the text "ProductID cannot be null!". Below the text is an "OK" button.

## Common Use Case #2:

The 'Add Customer' dialog box is shown with the following fields and values:

- CustomerID: 201
- Name: John Doe
- Address: 123 Street Drive
- Phone: 555-666-777

At the bottom, there are 'Add' and 'Cancel' buttons. A 'Message' dialog box is overlaid on top, displaying the text: "Customer added successfully!(201,"John Doe","555-666-777","123 Street Drive")". The 'Message' dialog box has an 'OK' button.

## Exception Case #2:

The 'Add Customer' dialog box is shown with the following fields and values:

- CustomerID: (empty)
- Name: John Doe
- Address: 123 Street Drive
- Phone: 555-666-777

At the bottom, there are 'Add' and 'Cancel' buttons. A 'Message' dialog box is overlaid on top, displaying the text: "CustomerID cannot be null!". The 'Message' dialog box has an 'OK' button.

### Common Use Case #3:

The 'Add Purchase' dialog box contains the following fields and values:

- PurchaseID: 301
- Date of purchase: Wed Oct 16 23:38:22 CDT 2019
- CustomerID: 201
- Product Name: John Doe
- ProductID: 101
- Product Name: Iphone 11
- Quantity: 1
- Product Price: 999.99
- Cost: \$999.99 Tax: \$90.00 Total: \$1089.99

Buttons: Add, Cancel

Message dialog box content:

Purchase added successfully!(301,201,101,999.99,1.0,999.99,89.9991,1089.9891,"Wed Oct 16 23:38:22 CDT 2019")

Buttons: OK

### Exception Case #3:

The 'Add Purchase' dialog box contains the following fields and values:

- PurchaseID: (empty)
- Date of purchase: Wed Oct 16 23:38:22 CDT 2019
- CustomerID: 201
- Product Name: John Doe
- ProductID: 101
- Product Name: Iphone 11
- Quantity: 1
- Product Price: 999.99
- Cost: \$999.99 Tax: \$90.00 Total: \$1089.99

Buttons: Add, Cancel

Message dialog box content:

PurchaseID cannot be null!

Buttons: OK

**Database File Images (for the three additions made in the pictures above):**

Name	Type	Schema
▼ Tables (3)		
▼ Customers		CREATE TABLE "Customers" ( "CustomerId" INTEGER NOT NULL, "
CustomerId	INTEGER	"CustomerId" INTEGER NOT NULL
Name	TEXT	"Name" TEXT
Phone	TEXT	"Phone" TEXT
Address	TEXT	"Address" TEXT
▼ Products		CREATE TABLE "Products" ( "ProductID" INTEGER NOT NULL, "Na
ProductID	INTEGER	"ProductID" INTEGER NOT NULL
Name	TEXT	"Name" TEXT
Price	NUMERIC	"Price" NUMERIC
Quantity	NUMERIC	"Quantity" NUMERIC
▼ Purchases		CREATE TABLE "Purchases" ( "PurchaseId" INTEGER NOT NULL, "C
PurchaseId	INTEGER	"PurchaseId" INTEGER NOT NULL
CustomerId	INTEGER	"CustomerId" INTEGER
ProductId	INTEGER	"ProductId" INTEGER
Price	NUMERIC	"Price" NUMERIC
Quantity	NUMERIC	"Quantity" NUMERIC
Cost	NUMERIC	"Cost" NUMERIC
Tax	NUMERIC	"Tax" NUMERIC
Total	NUMERIC	"Total" NUMERIC
Date	TEXT	"Date" TEXT
Indices (0)		
Views (0)		
Triggers (0)		

Table: ▼ Products

	ProductID	Name	Price	Quantity
	Filter	Filter	Filter	Filter
1	101	Iphone 11	999.99	10

Table: ▼ Customers

	CustomerId	Name	Phone	Address
	Filter	Filter	Filter	Filter
1	201	John Doe	123 Street Drive	555-666-7777

Table: ▼ Purchases    

	PurchaseId	CustomerId	ProductId	Price	Quantity	Cost	Tax	Total	Date
	Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter
1	301	201	101	999.99	1	999.99	90	1089.99	Wed Oct 16 ...