

# Python tutorial: Shopkeeper App

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Welcome to the python tutorial on how to create a shop keeper. We will learn how to create a simple application which responds to the user inputs and it allows the user to make choices.

We will learn how to use strings, integers and selections in python. Also we will learn what is a local and global variable in programming.

The program we are using is Pycharm. There is a detailed tutorial on how to install pycharm in the python section.

Lets follow this tutorial through.

Code	Description
<pre>print("Hello there!") print("Welcome to my humble shop") print("Please select the following options") print("L : for List of items")</pre>	This is the beginning of the program. We will greet the user. In the last line we are asking the user to press L to see the list of items shop keeper has in their inventory.
<pre>global apple global banana global bread</pre>	This is where we are declaring 3 different global variables. Global variable is same as any other variable in programming except it can be accessed through any function in the program. Local variables on the other hand can only be accessed through the function it was declared in.
<pre>apple = 6 banana = 6 bread = 8</pre>	This is where are giving some values to the GLOBAL variables we created in the line before
<pre>userIn = input()</pre>	We are now creating a userIn variable which will capture the user input in the program.
<pre>if userIn == "L":     print("You chose to see the list")     print("We have ", "Apples: ", apple, " Bananas: ", banana, " Bread: ", bread)     print("Types the item you want to buy e.g. Apple, Banana etc")</pre>	We are now going to make a if statement to check what the user has inputted. If the user has inputted L we will continue inside the if statement. Now we will show the list to the user. Look closely at the second line we are showing the apple, banana and bread inventory to screen. third line is giving instruction to user about how to but the items.

<code>userIn = input("")</code>	User input being called again to find out which item the user would like to buy.
<code>if userIn == "Apple":     print("How many", userIn)</code>	If statement to check if the user is asking Apple then we ask how many apples they want.
<code>buyThis = int(input())</code>	We are creating another variable called buyThis which will contain an INTERGER input from the user meaning this will accept numbers to be used in calculations.
<code>apple = int(apple-buyThis)</code>	Now we will find the total number of apples from the top and then we will deduct the number of apples the user wants to buy.
<code>print("Thank you, now we have, ", apple, userIn)</code>	Lastly we return the number of apples we have left in the shop.
<code>elif userIn == "Banana":     print("How many", userIn)     buyThis = int(input())     banana = int(banana-buyThis)     print("Thank you, now we have, ", banana, userIn)</code>	We are doing the same if statement for the banana this time. Instead of using IF keyword we are using the ELIF which means else if another condition.
<code>elif userIn == "Bread":     print("How many", userIn)     buyThis = int(input())     bread = int(bread-buyThis)     print("Thank you, now we have, ", bread, userIn)</code>	The third else if statement for the bread.
<code>else:     print("You didn't enter L")</code>	Lastly we are entering the else statement for the first if statement. If the user enters another letter other than L it will return this value to the screen.

This is a very basic program to understand string integer and if statements.

Try the following

See if you can run a loop for the user to buy more items not just one.

Can you do it?

Here is the full code for this program. Good luck

```
print("Hello there!")
print("Welcome to my humble shop")
print("Please select the following options")
print("L : for List of items")
global apple
global banana
global bread

apple = 6
banana = 6
bread = 8
```

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```

userIn = input()

if userIn == "L":
    print("You chose to see the list")
    print("We have ", "Apples: ", apple, " Bananas: ", banana,
" Bread: ", bread)
    print("Types the item you want to buy e.g. Apple, Banana
etc")
    userIn = input("")
    if userIn == "Apple":
        print("How many", userIn)
        buyThis = int(input())
        apple = int(apple-buyThis)
        print("Thank you, now we have, ", apple, userIn)
    elif userIn == "Banana":
        print("How many", userIn)
        buyThis = int(input())
        banana = int(banana-buyThis)
        print("Thank you, now we have, ", banana, userIn)
    elif userIn == "Bread":
        print("How many", userIn)
        buyThis = int(input())
        bread = int(bread-buyThis)
        print("Thank you, now we have, ", bread, userIn)
else:
    print("You didn't enter L")

```

Screen shots

```

C:\Users\Admin\AppData\Local\Programs\Python\Python
Hello there!
Welcome to my humble shop
Please select the following options
L : for List of items

```

```

Please select the following options
L : for List of items
L
You chose to see the list
We have Apples: 6 Bananas: 6 Bread: 8
Types the item you want to buy e.g. Apple, Banana etc
|

```

```
You chose to see the list
We have Apples: 6 Bananas: 6 Bread: 8
Types the item you want to buy e.g. Apple, Banana etc
Banana
How many Banana
|
```

```
Types the item you want to buy e.g. Apple, Banana etc
Banana
How many Banana
3
Thank you, now we have, 3 Banana
```