

Alice's Restaurant by Arlo Guthrie

[Alice's Restaurant](#)

Objective

Design a basic restaurant ordering system that allows a customer to order multiple items and checkout. You will use **lists**, **loops**, **user input**, and **conditionals**.

Instructions & Tasks

You will build the program in **steps**. Complete and test each task before moving to the next.

Task 1: Set Up the Menu

1. Create a list named items that includes 5 food or drink options.
Example: ["Burger", "Fries", "Salad", "Soda", "Ice Cream"]
2. Create a second list named prices with the same number of elements.
Make sure each price matches the item at the same index.
Example: [5.99, 2.99, 4.50, 1.75, 3.25]
3. Display the menu starting at **1**, not 0.
Format each line like this:
1: Burger - \$5.99
4. Use a for loop with range() to display both item and price.

Task 2: Add the Checkout Option

1. After showing the menu, print a **6th option**:
6: Checkout
2. Hint: Use len(items) + 1 to determine the number for Checkout.

Task 3: Ask for the Customer's Choice

1. Ask the user to enter a number (1 to 6).
2. Validate the input:
 - If it is not a number, show an error.
 - If it is not between 1 and 6, show another error.
3. Use a while True loop to keep repeating until checkout.

Task 4: Process the Order

7. If the user chooses a number between 1 and 5:

- Add the item to an order list.
- Add the price to a total variable.
- Print a message like:
Added Burger. Current total: \$5.99

Task 5: Handle Checkout

8. If the user selects option 6 (Checkout):

- Exit the loop.
- Print a receipt:
 - List all ordered items.
 - Show the total bill formatted to 2 decimal places.
 - Print: Thank you for your order!

Example run:

```
Welcome to Alice's Restaurant!  
Please select items from the menu:
```

```
MENU
```

```
1: Burger - $5.99  
2: Fries - $2.99  
3: Salad - $4.50  
4: Soda - $1.75  
5: Ice Cream - $3.25  
6: Checkout
```

```
Enter menu number: 1  
Added Burger. Current total: $5.99
```

```
MENU
```

```
1: Burger - $5.99  
2: Fries - $2.99  
3: Salad - $4.50  
4: Soda - $1.75  
5: Ice Cream - $3.25  
6: Checkout
```

```
Enter menu number: 2  
Added Fries. Current total: $8.98
```

```
MENU
```

```
1: Burger - $5.99  
2: Fries - $2.99  
3: Salad - $4.50  
4: Soda - $1.75  
5: Ice Cream - $3.25  
6: Checkout
```

```
Enter menu number: 6
```

```
Your Order:
```

```
- Burger  
- Fries
```

```
Total due: $8.98
```

```
Thank you for your order!
```

Challenge

Challenges are optional. They are to challenge the more experienced student.

- After each item is added, display the updated total.
- Format your menu nicely with spacing and alignment.

Submission Requirements

- Submit your .py file with your complete program.
- The program must run without errors.
- Follow the task list and comment your code.