CASHMEMO SYSTEM

Overview

This project is a simple Python-based billing system that creates a cash memo for small shops. It collects customer details, item details,calculates totals and prints a formatted cash memo in the console. The system is built using two Python modules: one for customer details and one for the billing workflow.

Features

- Input shop name and invoice number

- Automatic customer ID generation

- Add multiple items with quantity and price

- Auto-calculation of item totals and grand total

- Clean and readable cash memo output

- Modular structure with separate customer module

Technologies / Tools Used

- Python 3

- Standard input/output

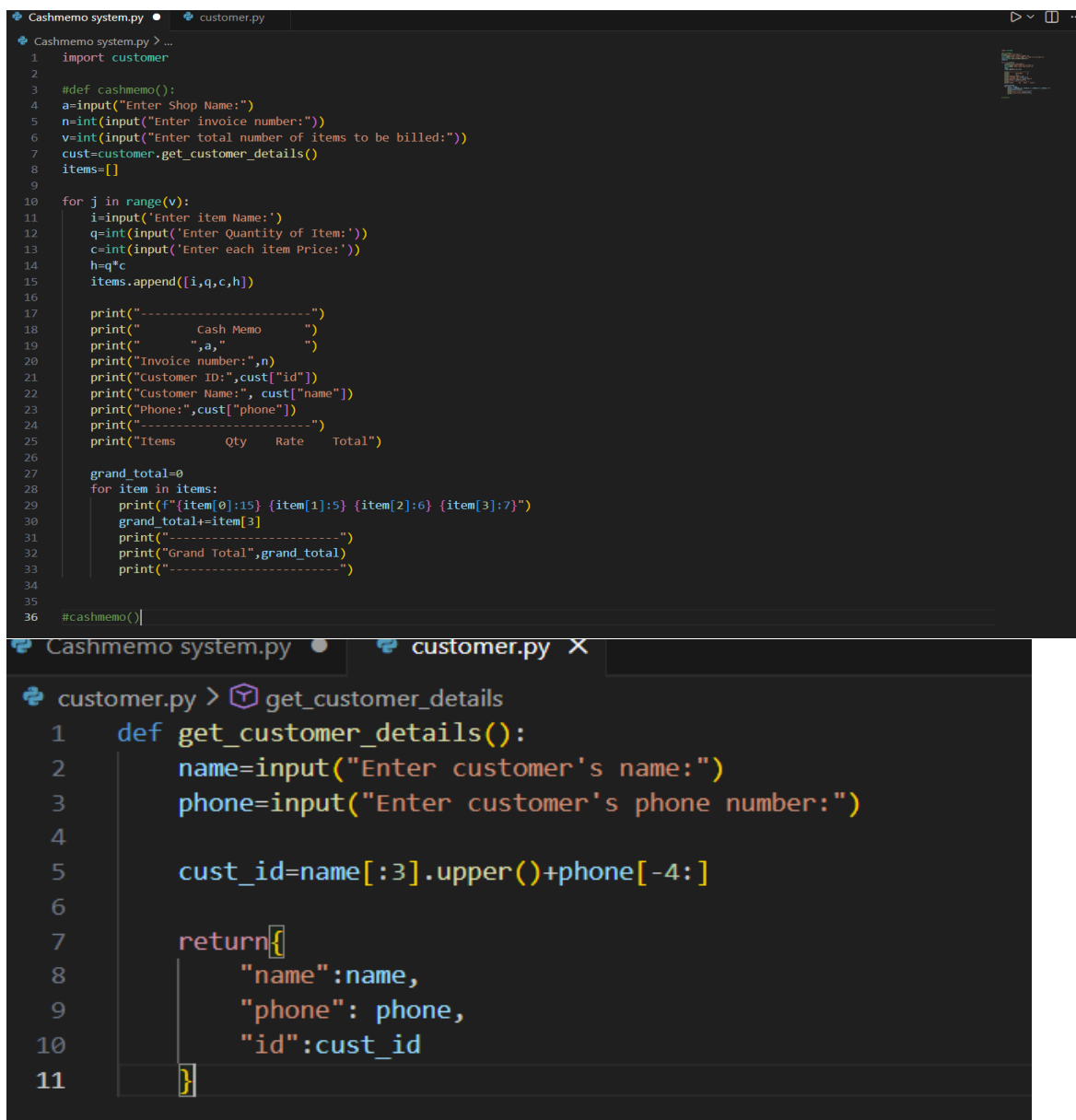- No external libraries required

Steps to Install & Run

1. Download or clone the project folder.

2. Ensure both files exist in the same directory:

- Cashmemo system.py
- Customer.py

3. Open terminal or command prompt in the project directory.

4. Run the main program:

5. python "Cashmemo system.py"

6. Follow the on-screen prompts to enter shop, customer and item details.

Instructions for Testing

- Test with different customer names and phone numbers to check ID generation.

- Try various item counts to confirm that totals are calculated correctly.

- Enter different quantities and prices to verify the grand total.

- Check output formatting for readability.

Screenshots:-

```python
import customer

#def cashmemo():
a=input("Enter Shop Name:")
n=int(input("Enter invoice number:"))
v=int(input("Enter total number of items to be billed:"))
cust=customer.get_customer_details()
items=[]

for j in range(v):
    i=input('Enter item Name:')
    q=int(input('Enter Quantity of Item:'))
    c=int(input('Enter each item Price:'))
    h=q*c
    items.append([i,q,c,h])

    print("-----------------------")
    print("        Cash Memo      ")
    print("        ",a,"        ")
    print("Invoice number:",n)
    print("Customer ID:",cust["id"])
    print("Customer Name:", cust["name"])
    print("Phone:",cust["phone"])
    print("-----------------------")
    print("Items      Qty   Rate   Total")

    grand_total=0
    for item in items:
        print(f"{item[0]:15} {item[1]:5} {item[2]:6} {item[3]:7}")
        grand_total+=item[3]
        print("-----------------------")
        print("Grand Total",grand_total)
        print("-----------------------")

#cashmemo()
```

```python
def get_customer_details():
    name=input("Enter customer's name:")
    phone=input("Enter customer's phone number:")

    cust_id=name[:3].upper()+phone[-4:]

    return{
        "name":name,
        "phone": phone,
        "id":cust_id
    }
```

```
PS C:\Users\HP\OneDrive\Desktop\CSE project VITYART
t VITYARTHI/Cashmemo system.py"
Enter Shop Name:Akshat Traders
Enter invoice number:1
Enter total number of items to be billed:2
Enter customer's name:Akshat Grover
Enter customer's phone number:123456789
Enter item Name:Tooth Brush
Enter Quantity of Item:5
Enter each item Price:20
------------------------
------------------------
        Cash Memo
        Akshat Traders
Invoice number: 1
Customer ID: AKS6789
Customer Name: Akshat Grover
Phone: 123456789
------------------------
Items                Qty    Rate    Total
Tooth Brush           5     20      100
------------------------
Grand Total 100
------------------------
Bowl                  2     500     1000
------------------------
Grand Total 1100
------------------------
```

```
t VITYARTHI/Cashmemo system.py"
Enter Shop Name:Akshat Traders
Enter invoice number:1
Enter total number of items to be billed:2
Enter customer's name:Akshat Grover
Enter customer's phone number:123456789
Enter item Name:Tooth Brush
Enter Quantity of Item:5
Enter each item Price:20
------------------------
        Cash Memo
        Akshat Traders
Invoice number: 1
Customer ID: AKS6789
Customer Name: Akshat Grover
Phone: 123456789
------------------------
Items                 Qty    Rate    Total
Tooth Brush           5      20      100
------------------------
Grand Total 100
------------------------
Enter item Name:Bowl
Enter Quantity of Item:2
Enter each item Price:500
------------------------
        Cash Memo
        Akshat Traders
Invoice number: 1
Customer ID: AKS6789
Customer Name: Akshat Grover
Phone: 123456789
------------------------
Items                 Qty    Rate    Total
Tooth Brush           5      20      100
------------------------
Grand Total 100
------------------------
Bowl                  2      500     1000
------------------------
```