



GROCERY STORE(NAMMA GROCERY)

USING SOCKET PROGRAMMING

MODULES USED:

1. **SOCKET:** The socket module provides various objects, constants, functions and related exceptions for building full-fledged network applications including client and server programs.
2. **THREADING:** Threading module is used for creating, controlling and managing threads in python.
3. **GUI:** GUI is a simple API that enables developers to create user interface using native elements for python application.

DESCRIPTION:

We are going to show how the interaction is done in an online server and client in a grocery shop with the help of socket programming. There is a method called `bind()` which helps the server to bind to a specific IP address and port so it can listen to the incoming request and IP address and port with the help of the `listen()` method. The client, after establishing the connection with the server, if he likes to order something in-store, selects the quantity and the final bill will be shown with the individual order bill. The total cost is calculated in the server with selected items.

Protocol used : TCP TCP is used to guarantee the integrity of data. If TCP is not used, some of the votes might get “lost”. Corrupt politicians can then use UDP as an excuse if they lose.

ABSTRACT:

A grocery store permits a customer to submit online orders for items and services from a store that serves both walk-in customers and online customers. It is an simple idea that a server is built at the store application an multiple clients were given access to it, to order their indeed items. By using Tkinter we build an simple store display. When a user accesses the server, they have to fill their respective complete details like name, contact no and a random bill number is generated for each user . Later these details will get updated for the server .And a users can see the products an their respective prices, where they will select their indeed quantity products and finally a total number of items are displayed for the user reminder . And a bill with their price and quantity are provided for the user . Lastly the thank u gets displayed in the client side.

USER INTERFACE:

namma grocery

namma grocery

Customer Details

Customer Name

kamal

Phone No

1234567899

Bill No.

4253

Fruits

Grapes (₹=1)

2

Banana (₹=3)

3

Apple (₹=8)

0

Cherry (₹=6)

0

Pineapple (₹=4)

5

Grocery

Rice (₹=1)

3

Food Oil (₹=5)

5

Salt (₹=1)

0

Wheat (₹=3)

0

Sugar (₹=2)

0

Others

Chips (₹=4)

4

Coke (₹=2)

5

Juice (₹=2)

0

Waffer (₹=2)

0

Biscuits (₹=2)

0

Bill List

Welcome To Store's Retail

Bill No. : 4253
Customer Name : kamal
Phone No. : 1234567899

Product	Qty	Price
Grapes	2	2
Banana	3	9
Pineapple	5	20
Food Oil	5	25
Rice	3	9
Chips	4	16
Coke	5	10

Total : ₹95.55

Bill Menu

Total Fruits

₹31

Total Grocery

₹34

Others Total

₹26

Fruits Tax

₹2

Grocery Tax

₹2

Others Tax

₹1

Total

Generate Bill

Clear

Exit

SERVER SIDE TERMINAL WINDOW:

OUTPUT PROBLEMS DEBUG CONSOLE TERMINAL

Windows PowerShell

ttps://aka.ms/PSWindows

PS C:\Users\sabka\Documents\CN\prjt\b> **python** server.py

waiting for connections

connected with ('127.0.0.1', 65230)

client is accessing the server

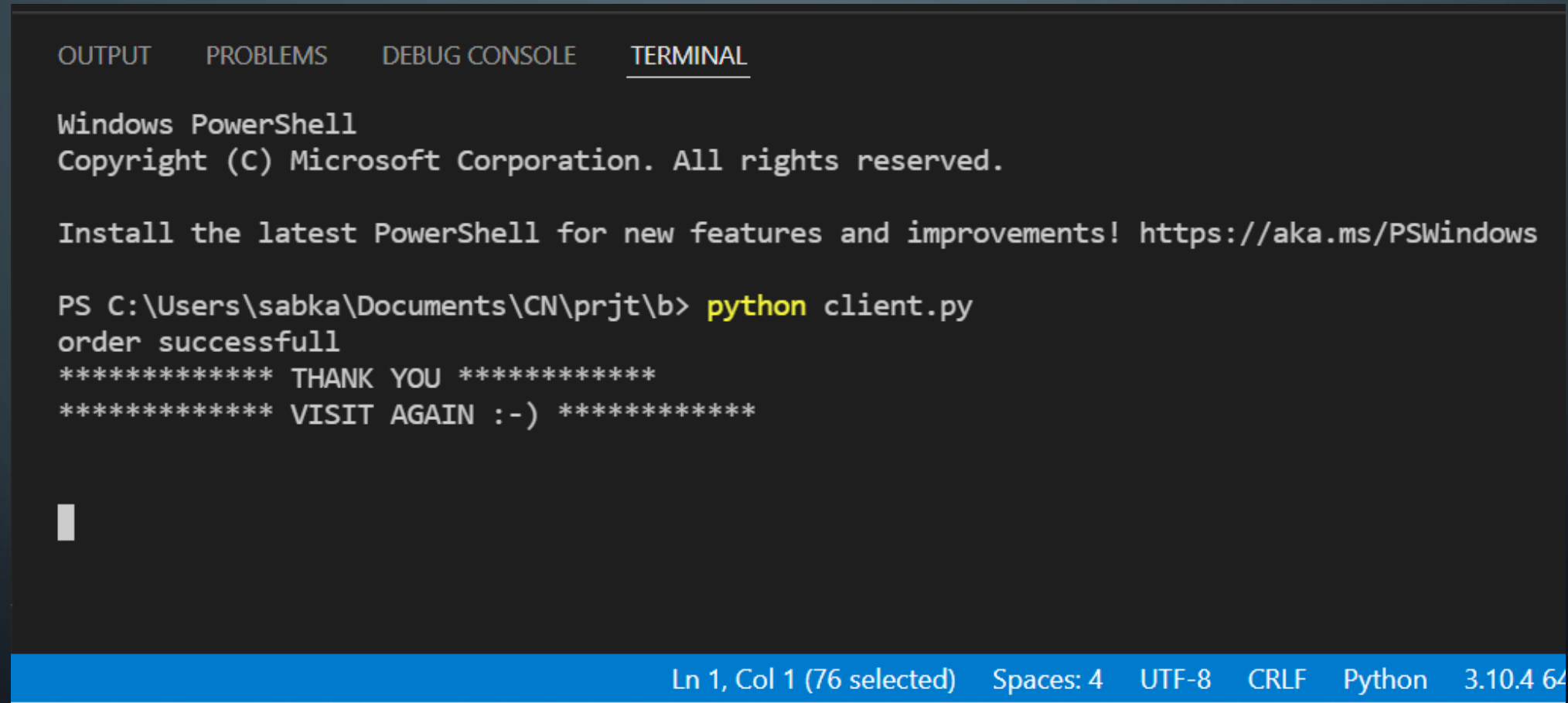
NAME OF THE CUSTOMER IS : kamal

TOTAL BILL : 95.55

CONTACT INFO OF CUSTOMER : 12345678994253

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CLIENT SIDE TERMINAL WINDOW:



A screenshot of a terminal window with a dark background and light-colored text. The window has a title bar at the top with four tabs: 'OUTPUT', 'PROBLEMS', 'DEBUG CONSOLE', and 'TERMINAL'. The 'TERMINAL' tab is selected and underlined. The terminal content shows the Windows PowerShell prompt, copyright information, a link to the PowerShell website, the execution of a Python script, and a success message. The status bar at the bottom is blue and displays 'Ln 1, Col 1 (76 selected) Spaces: 4 UTF-8 CRLF Python 3.10.4 64'.

```
OUTPUT  PROBLEMS  DEBUG CONSOLE  TERMINAL

Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\sabka\Documents\CN\prjt\b> python client.py
order successfull
***** THANK YOU *****
***** VISIT AGAIN :-) *****

|

Ln 1, Col 1 (76 selected)  Spaces: 4  UTF-8  CRLF  Python  3.10.4 64
```



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