RESTAURANT MANAGEMENT SYSTEM

1. INTRODUCTION

1.1 Objective

- The main objective of this project is to develop a client/server model, which deals with "Online Restaurant Meal Reservation System". The system has two parts first for the customers and the other for the management side.
- The customer side allows the customer to view menu list according to the time of delivery he desires and reserve meal for that specific time, and at the management side the staff is allowed to edit information regarding menu list, price, assigning cook, maintain information regarding the orders placed, etc.

2. PROBLEM STATEMENT-RMS PROJECT

2.1 PROBLEM AREA

A restaurant is a kind of company that sells prepared cuisine to clients all over the world. Under the former booking system, a customer must phone to make a reservation for his lunch. On the reception side, there is basically just one operator and one phone line. Therefore, he can only fulfil 15 to 20 requests in an hour. Every reservation must be manually entered on paper, given a priority based on the time and amount, and placed in a queue. A cook is assigned with the responsibility of finishing the order.

2.2 PROBLEM ANALYSIS

We would like to analyze some of the problems here:

a. Initial problem is that the customer has to get connected over the phone, it would be harder if the restaurant is very popular and busy.

b. As customer won't have the menu list with him, it would be harder for him to remember the entire list (with price as well...!) and come to a decision, i.e. customer is provided with less time to make decision.

c. The chances of committing mistakes at the restaurant side in providing a menu list for a specific time would be more.

d. There might be some communication problems or sometimes language might be a barrier.

e. As entire booking has to be done manually at the restaurant end, the chances of occurrence of mistakes is high as well.

f. Most of restaurants have single phone line and a single operator to handle incoming calls, so they can accept limited orders.

g. If the restaurant is of busy type, than the operator is left with no time to decide over the priority of the order fulfillment.

h. Even assigning orders (or some menu from the order) to a specific cook can be cumbersome if it is done parallel with the bookings of the order.

i. All the calls will not by intended for booking, as some calls might be for canceling the order or to fetch the status as well, this eats up the productive time at the restaurant side.

2.3 SOLUTION FOR THE PROBLEMS

- The consumer can visit the menu page after successfully logging in, where the items are listed according to the preferred time of order delivery. Later, he can order a meal by searching for a menu in the selection of things based on his preferences, such as price range and food category. The consumer is also given the option to see the order's status, and if it is ready, he can go pick it up. The consumer is only allowed to cancel an order if he does it within a certain time frame. The staff member must first log in to the management side, where the privileges are established according to their position.
- If the member is, for example, a cook, he is only permitted to alter the order items status, which indicates which menu items he has cooked. He can also alter the menu's details, such as its pricing and the items that are currently available, and he can block (if a customer already existing) or edit a customer's order in accordance with your priority.

3. SOFTWARE REQUIREMENT SPECIFICATIONS

3.1 FUNCTIONAL SPECIFICATION

3.1.1 Customer Specification

a. Search Menu according to the time of order delivery

b. Allow to search menu according to price and category

c. Allow to book/cancel order

d. Allow the customer to edit/create his personal account (membership)

e. Allow customer an option to change his password

3.1.2 Management Specification

a. Edit Menu records

b. Reassign Cook

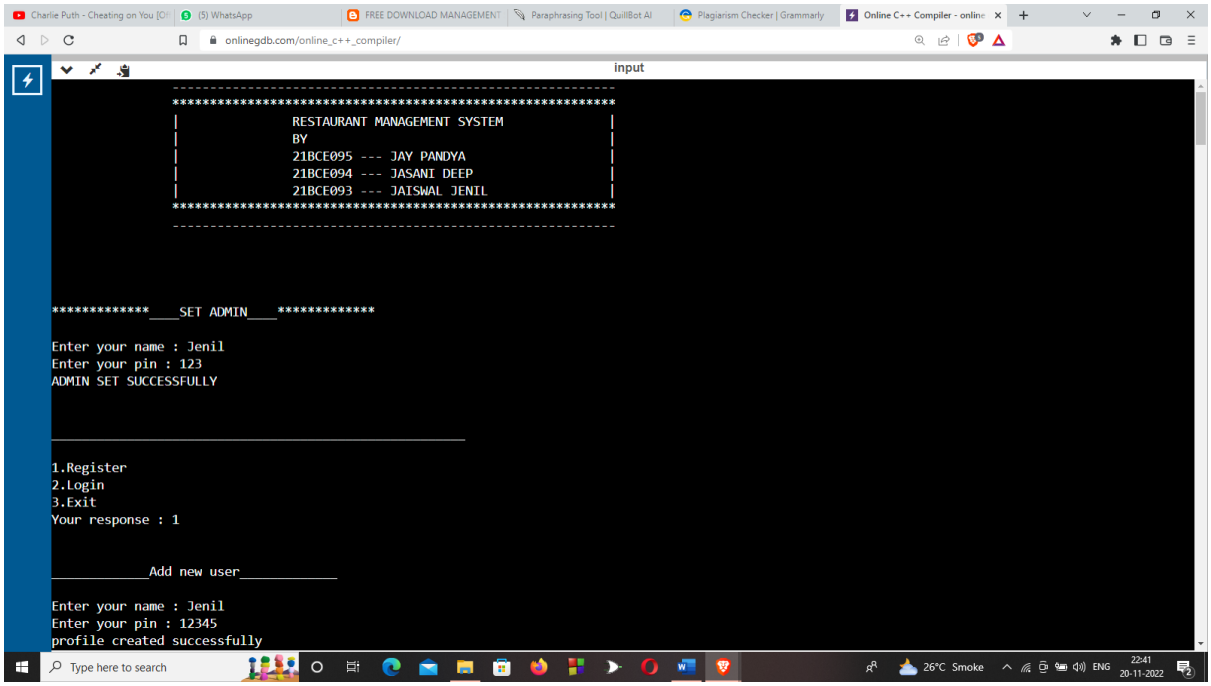
c. Cancellation the order

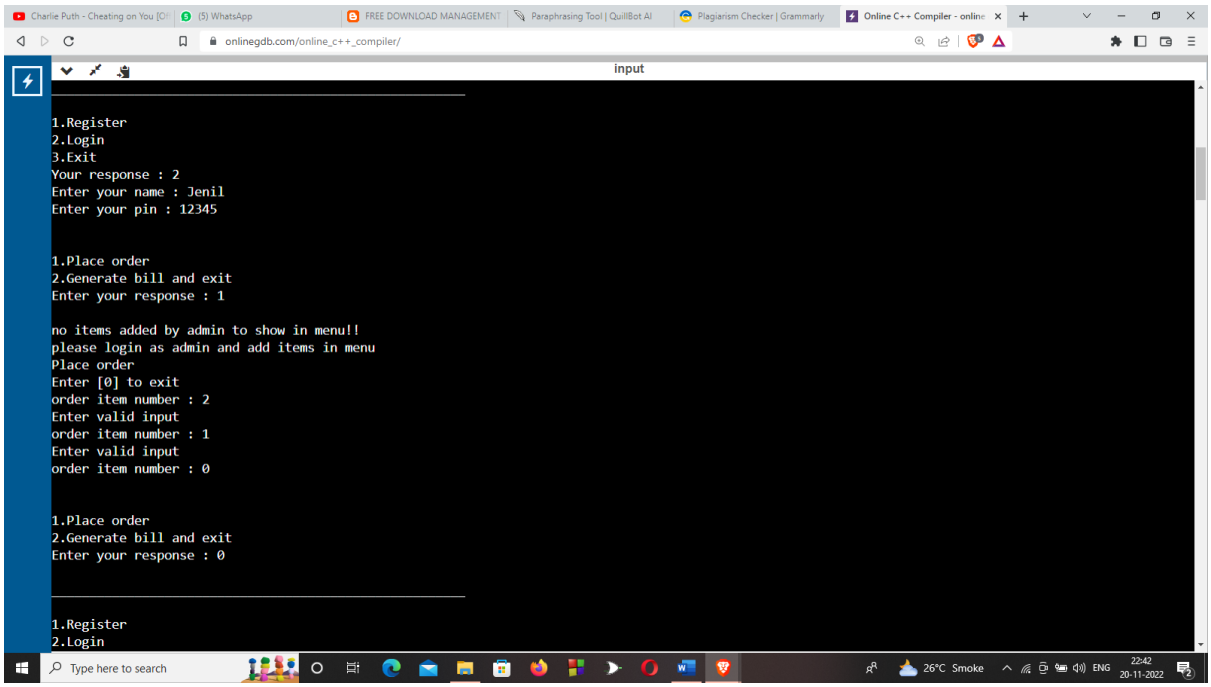
d. Create/Edit Cook's list

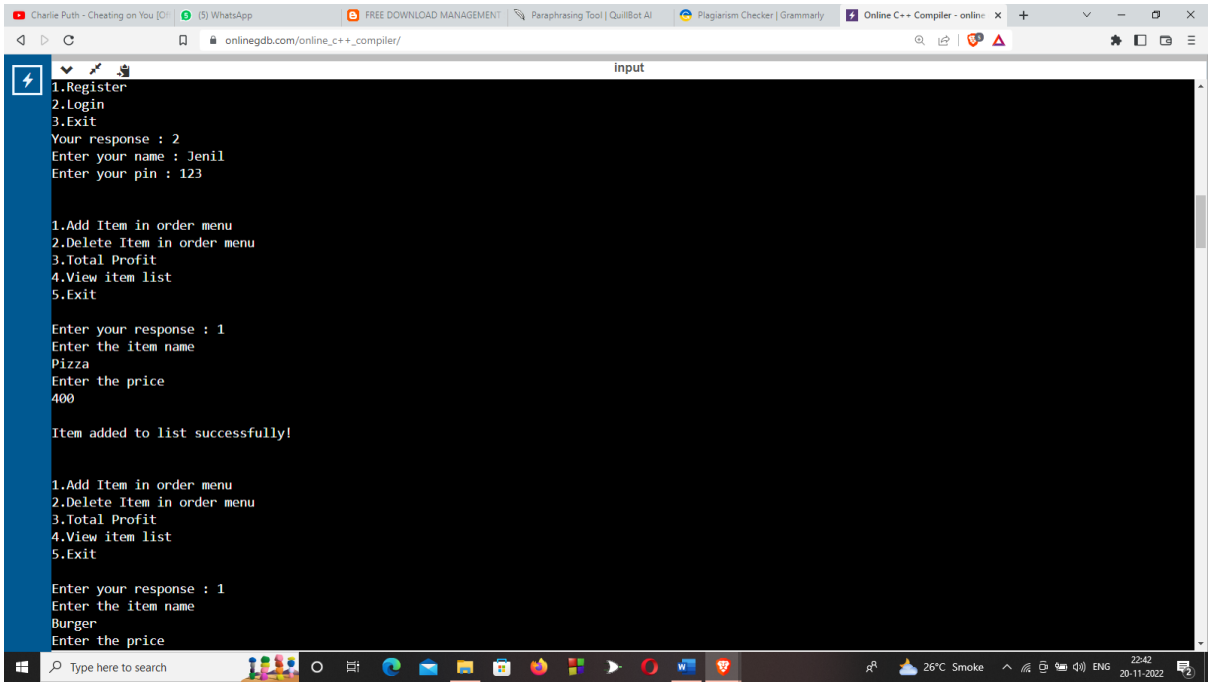
e. Blocking specific customer

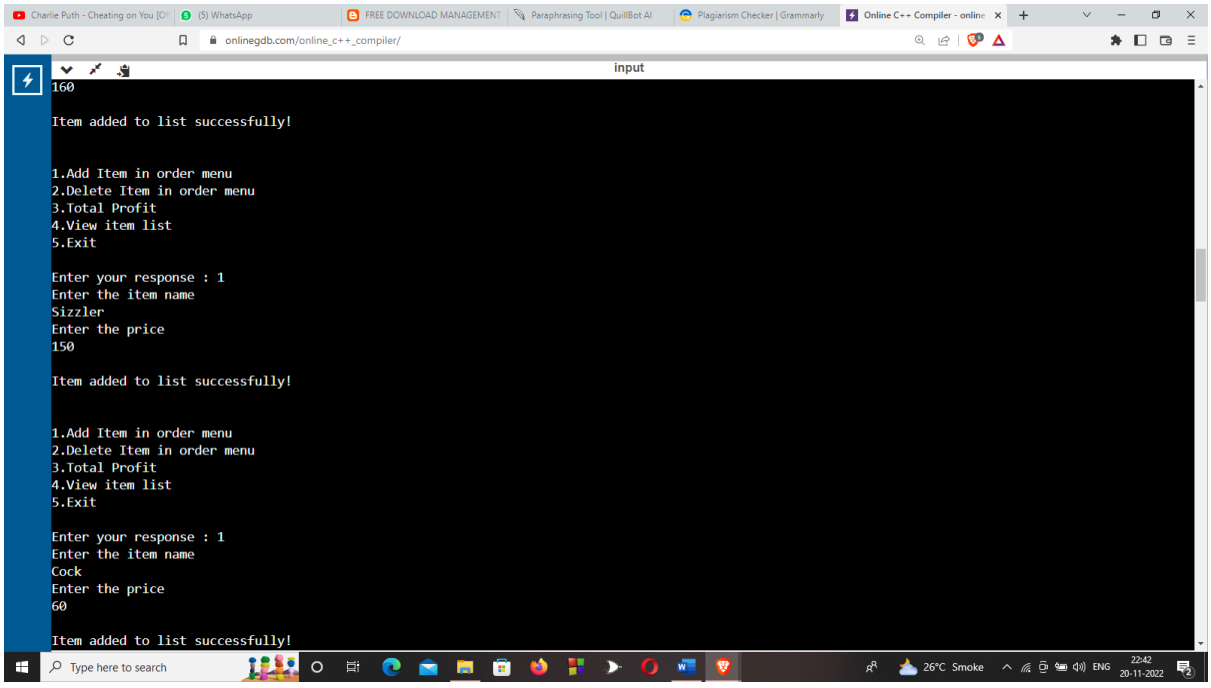
f. Allotting some privileges to cook

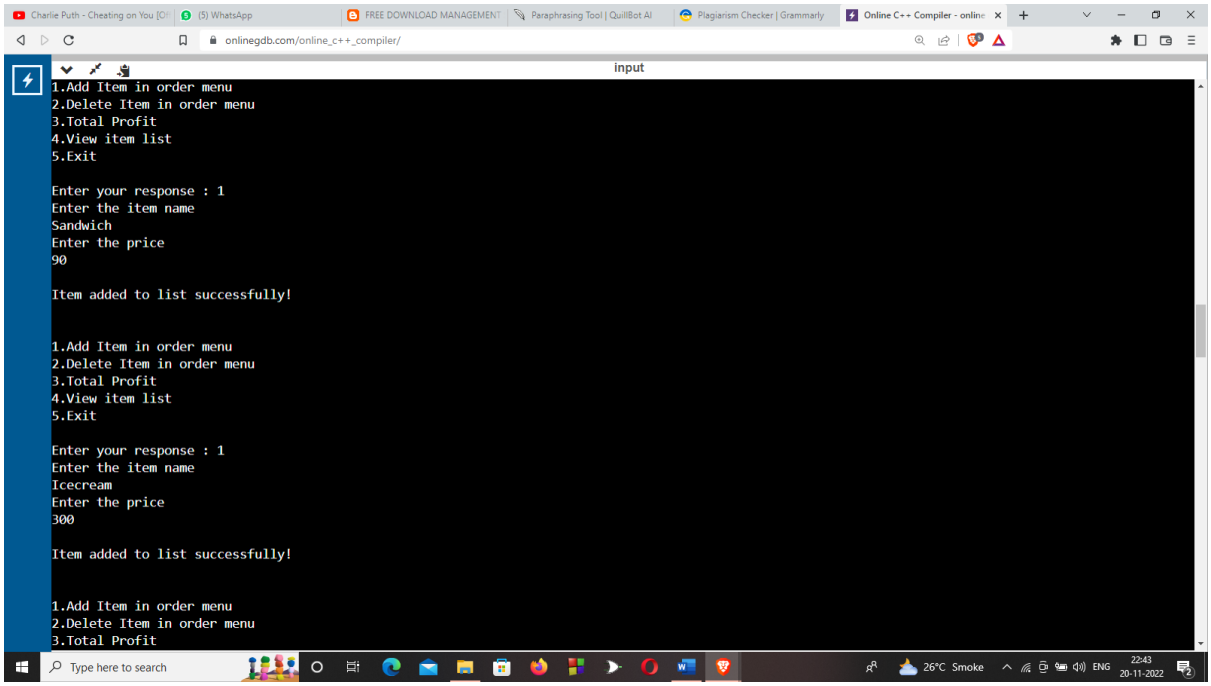
OUTPUT

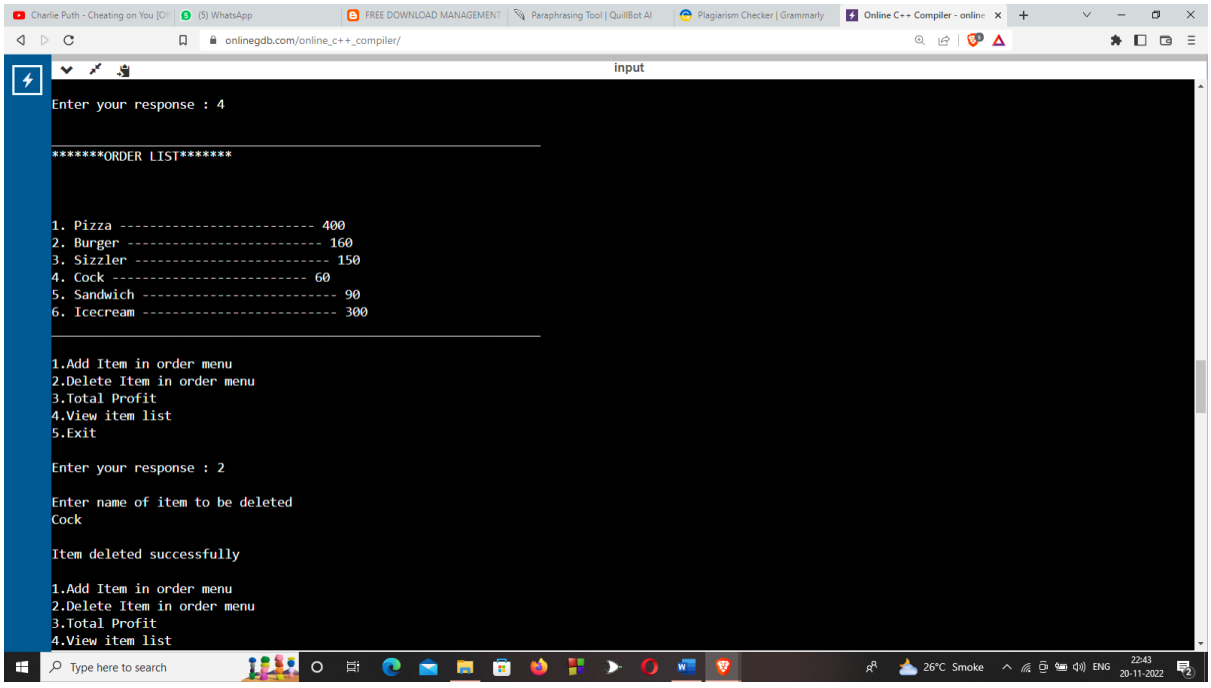


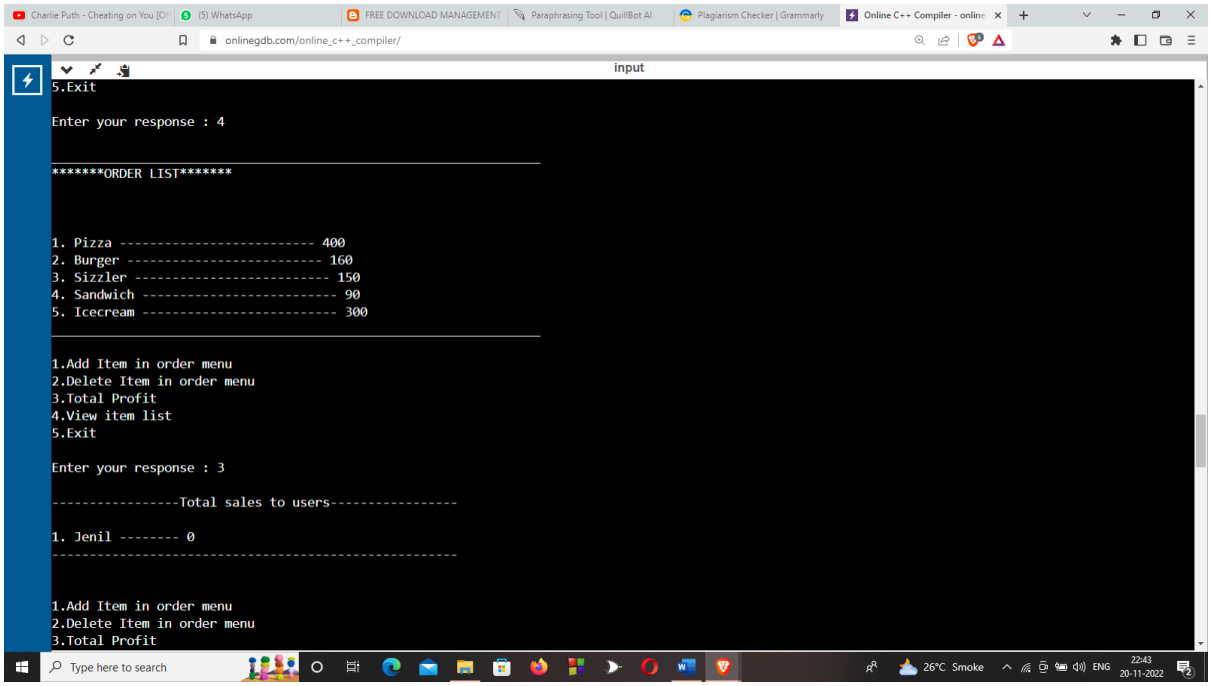



onlinegdb.com/online_c++_compiler/
input
1.Register
2.Login
3.Exit
Your response : 2
Enter your name : Jenil
Enter your pin : 123
1.Add Item in order menu
2.Delete Item in order menu
3.Total Profit
4.View item list
5.Exit
Enter your response : 1
Enter the item name
Pizza
Enter the price
400
Item added to list successfully!
1.Add Item in order menu
2.Delete Item in order menu
3.Total Profit
4.View item list
5.Exit
Enter your response : 1
Enter the item name
Burger
Enter the price
Type here to search
26°C Smoke
ENG
22:42
20-11-2022

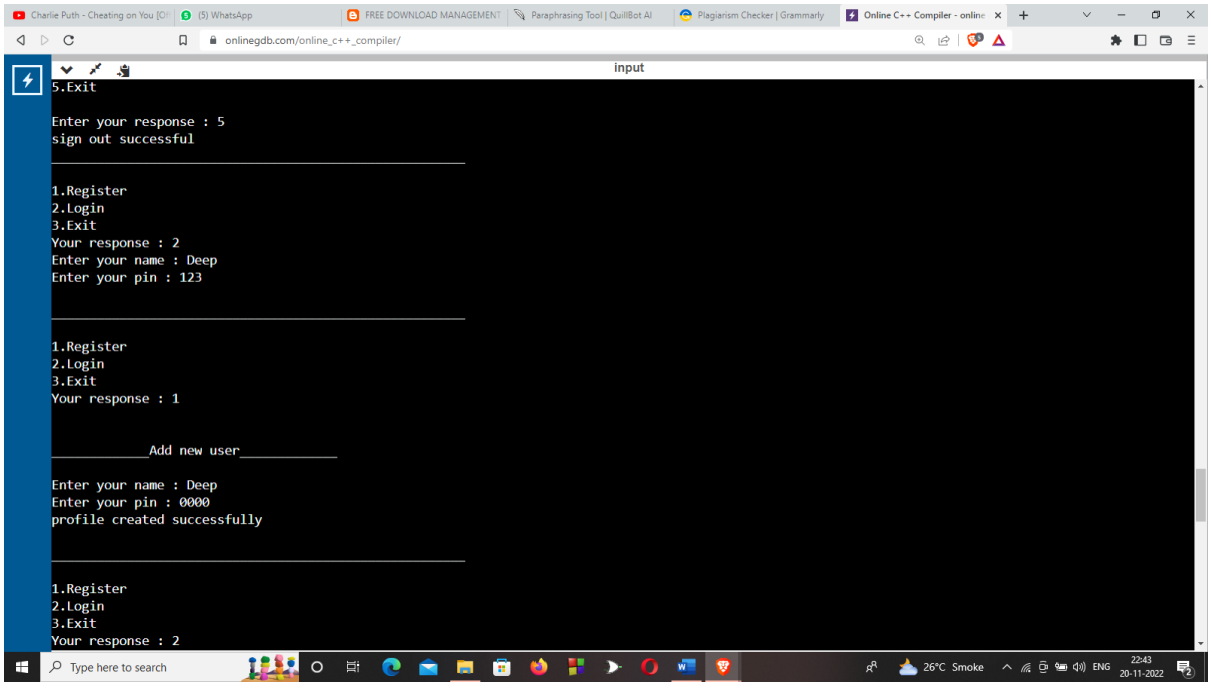

onlinegdb.com/online_c++_compiler/
input
160
Item added to list successfully!
1.Add Item in order menu
2.Delete Item in order menu
3.Total Profit
4.View item list
5.Exit
Enter your response : 1
Enter the item name
Sizzler
Enter the price
150
Item added to list successfully!
1.Add Item in order menu
2.Delete Item in order menu
3.Total Profit
4.View item list
5.Exit
Enter your response : 1
Enter the item name
Cock
Enter the price
60
Item added to list successfully!
Type here to search
26°C Smoke
ENG
22:42
20-11-2022

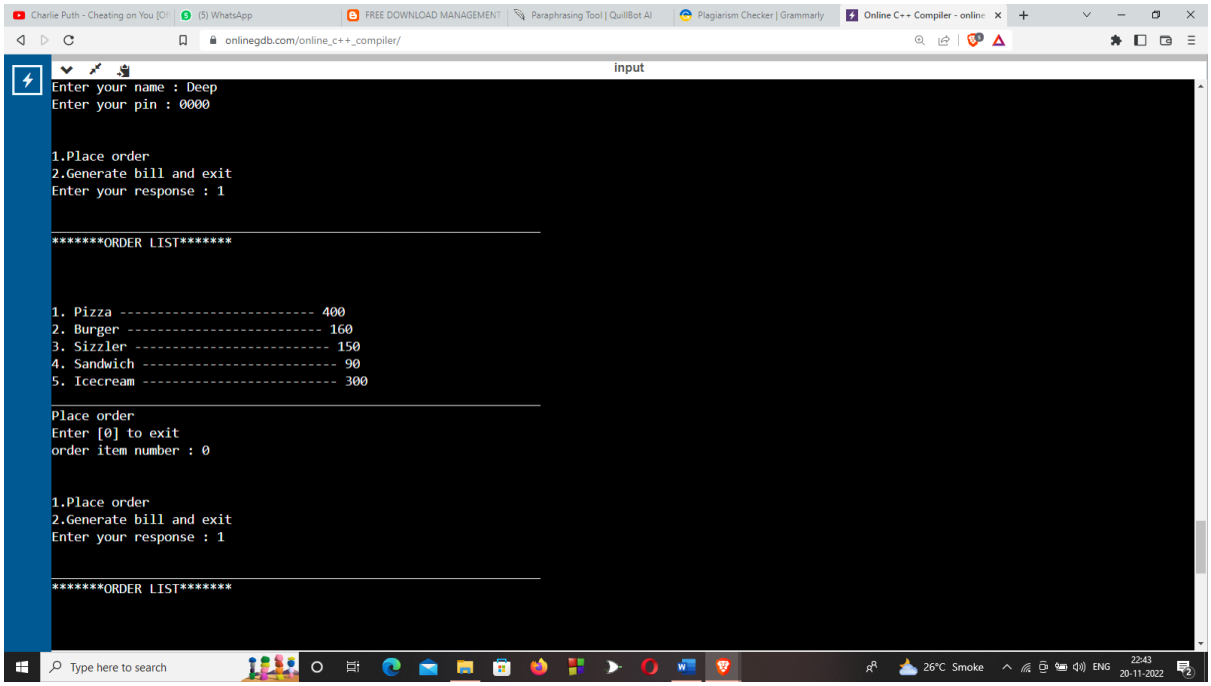

onlinegdb.com/online_c++_compiler/
input
1.Add Item in order menu
2.Delete Item in order menu
3.Total Profit
4.View item list
5.Exit
Enter your response : 1
Enter the item name
Sandwich
Enter the price
90
Item added to list successfully!
1.Add Item in order menu
2.Delete Item in order menu
3.Total Profit
4.View item list
5.Exit
Enter your response : 1
Enter the item name
Icecream
Enter the price
300
Item added to list successfully!
1.Add Item in order menu
2.Delete Item in order menu
3.Total Profit
Type here to search
26°C Smoke
ENG
22:43
20-11-2022

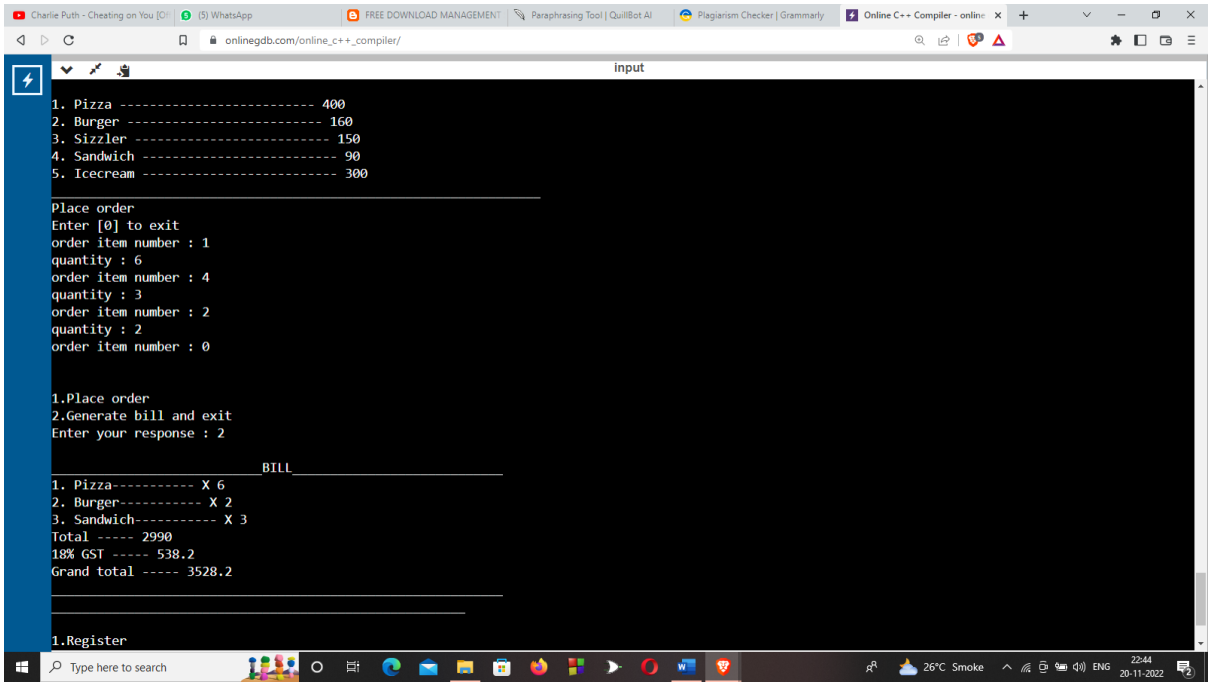

onlinegdb.com/online_c++_compiler/
input
Enter your response : 4
*******ORDER LIST*******
1. Pizza ---------- 400
2. Burger ---------- 160
3. Sizzler ---------- 150
4. Cock ---------- 60
5. Sandwich ---------- 90
6. Icecream ---------- 300
1.Add Item in order menu
2.Delete Item in order menu
3.Total Profit
4.View item list
5.Exit
Enter your response : 2
Enter name of item to be deleted
Cock
Item deleted successfully
1.Add Item in order menu
2.Delete Item in order menu
3.Total Profit
4.View item list
Type here to search
26°C Smoke
ENG
22:43
20-11-2022

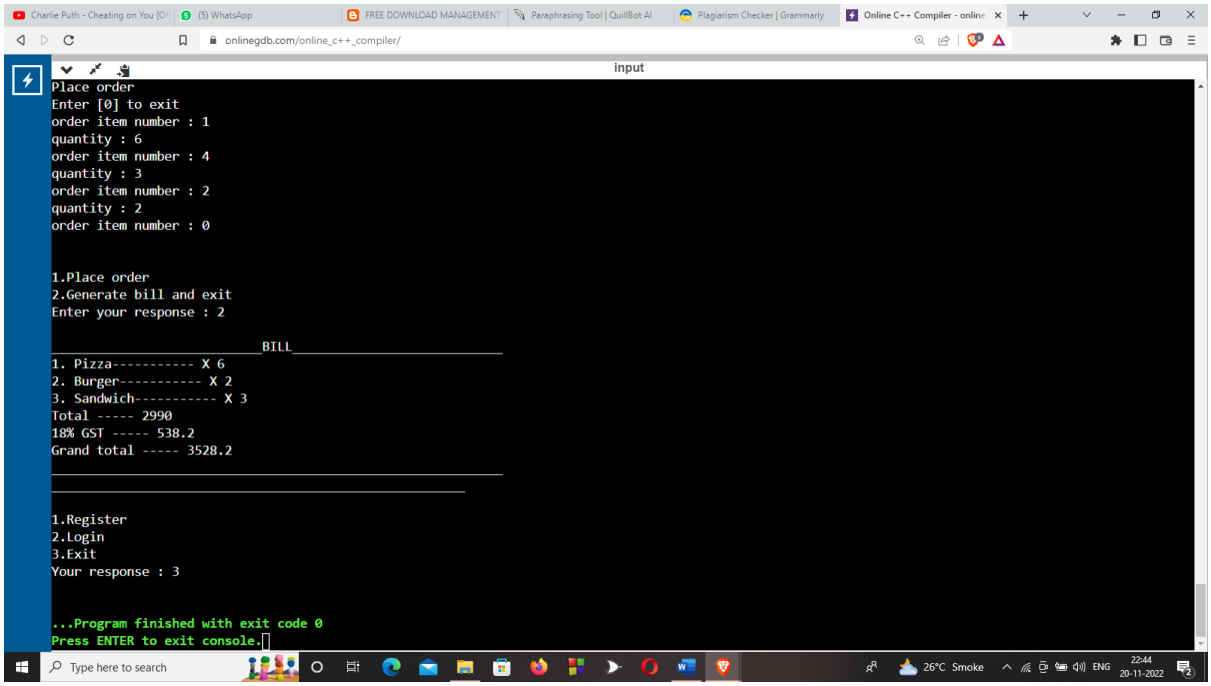

input
5.Exit
Enter your response : 4
_____
******ORDER LIST******
1. Pizza ---------- 400
2. Burger ---------- 160
3. Sizzler ---------- 150
4. Sandwich ---------- 90
5. Icecream ---------- 300
_____
1.Add Item in order menu
2.Delete Item in order menu
3.Total Profit
4.View item list
5.Exit
Enter your response : 3
----------Total sales to users----------
1. Jenil -------- 0

1.Add Item in order menu
2.Delete Item in order menu
3.Total Profit


input
5.Exit
Enter your response : 5
sign out successful
_____
1.Register
2.Login
3.Exit
Your response : 2
Enter your name : Deep
Enter your pin : 123
_____
1.Register
2.Login
3.Exit
Your response : 1
_____Add new user_____
Enter your name : Deep
Enter your pin : 0000
profile created successfully
_____
1.Register
2.Login
3.Exit
Your response : 2


input
Enter your name : Deep
Enter your pin : 0000
1.Place order
2.Generate bill and exit
Enter your response : 1
_____
*******ORDER LIST*******
1. Pizza ---------- 400
2. Burger ---------- 160
3. Sizzler ---------- 150
4. Sandwich ---------- 90
5. Icecream ---------- 300
_____
Place order
Enter [0] to exit
order item number : 0
1.Place order
2.Generate bill and exit
Enter your response : 1
_____
*******ORDER LIST*******


input
1. Pizza ---------- 400
2. Burger ---------- 160
3. Sizzler ---------- 150
4. Sandwich ---------- 90
5. Icecream ---------- 300
_____
Place order
Enter [0] to exit
order item number : 1
quantity : 6
order item number : 4
quantity : 3
order item number : 2
quantity : 2
order item number : 0
1.Place order
2.Generate bill and exit
Enter your response : 2
_____BILL_____
1. Pizza---------- X 6
2. Burger---------- X 2
3. Sandwich---------- X 3
Total ----- 2990
18% GST ----- 538.2
Grand total ----- 3528.2
_____
_____
1.Register



BY – 21BCE093-Jenil Jaiswal, 21BCE094-Deep Jasani , 21BCE095-Jay Pandya