TERM PROJECT

IN

CS127-8L- Computer Programming 2

(C++)

"Kainan ni Mang Hulyo"

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Introduction

Food Ordering System is an application which will help restaurants to optimize and control their restaurants. For the waiters, it is making life easier because they don't have to go to the kitchen and give the orders to the chef easily. For the management point of view, the manager will be able to control the restaurant by having all the reports to hand and able to see the records of each employee and orders.

This application helps restaurants to do all functionalities more accurately and faster. The Food Ordering System reduces manual work and improves efficiency of restaurants. This application is helping Food Ordering s to maintain the stock and cash flows and there are many more functionalities, like.

- To store records.
- Control orders and services.
- Billings.
- Control staff and their shifting.

The main goal is to maintain the restaurant's functions in an effective and accurate manner, and it is reducing the use of manual entries. This software helps food orders to maintain day to day records in the system. It is keeping a proper record of the database.

Talking about the features of the food ordering system, the user must select any of the items from the main menu. Then he/she must select its types and then enter food quantity. After this, the system will ask if the customer is a senior citizen to get a discount and after the question answered, the system will display the total bill of the customer. The Food Ordering system is developed using C++ Programming Language and different variables that has been tackled in CS127 for the development of this project.

Scope of the Project

The topic we used in making this term project are the following;

- Arrays is used to store a collection of data, but it is often more useful to think of an array as a collection of variables of the same type. And we used this array on the card number, total order for the bill, and the order quantity.

- Pointers is a variable that holds the address of another variable. They have data types just like variables, wherein as you can see in our term project an integer type pointer can hold the address of an integer variable and an character type pointer can hold the address of a char variable.

- Dynamic Arrays is an array with a big improvement, automatic resizing. One

- limitation of arrays is that they're fixed size, meaning you need to specify the number of elements your array will hold ahead of time. Just like in the picture below

```
void insertfirst(int data, char foodname[25], int quantity, float price);
void insertmid(int pos, int data, char foodname[25], int quantity, float price);
void insertend(int data, char foodname[25], int quantity, float price);
void updatefood(int udata, int uquantity);
```

- C-String A valid C string requires the presence of a terminating "null character" just like in our code below

```
char foodname[50];
int quantity;
float price;
int data;
struct Node *next;
```

- Structure is a collection of variables of different data types under a single name. It is similar to a class in that, both holds a collection of data of different data types.

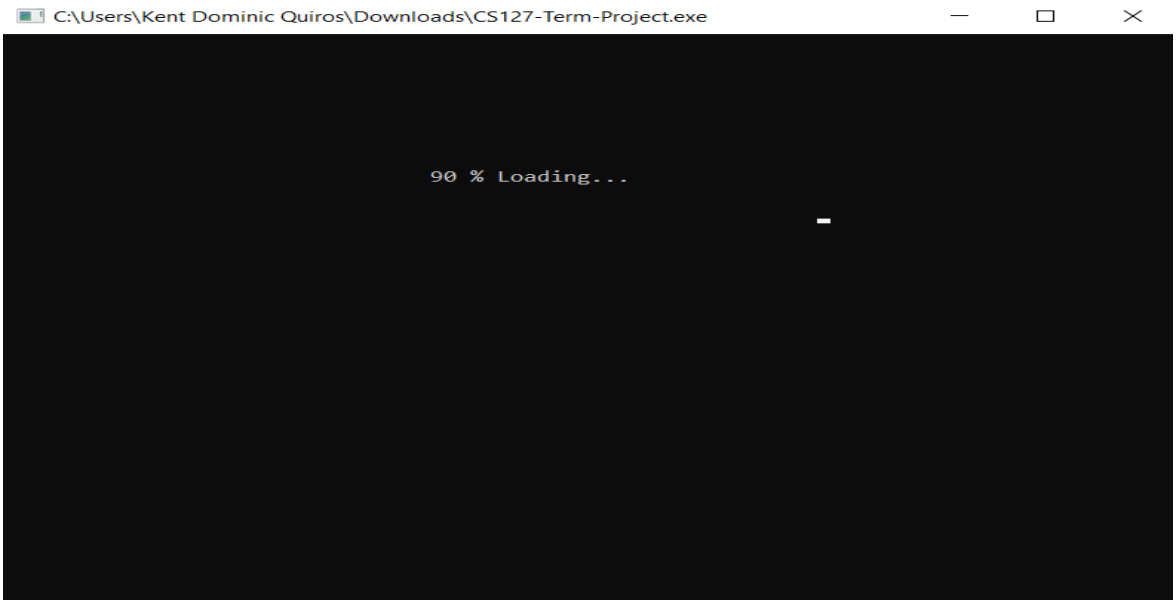
```
struct Node
{
    char foodname[50];
    int quantity;
    float price;
    int data;
    struct Node *next;
};
```

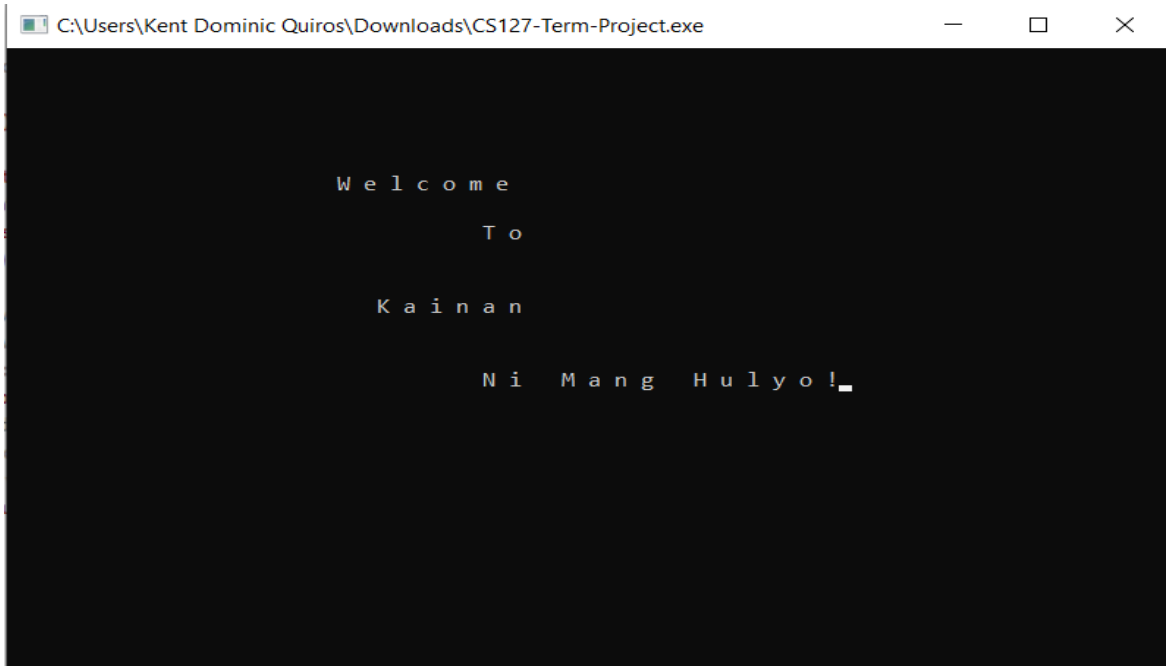
- File Streaming File represents storage medium for storing data or information. Streams refer to sequence of bytes. In Files we store data like text or binary data permanently and use these data to read or write in the form of input output operations by transferring bytes of data. In our project we used ofstream and fstream, ofstream represents output Stream and this is used for writing in files. While fstream represents both output Stream and input Stream. so it can read from files and write to files.

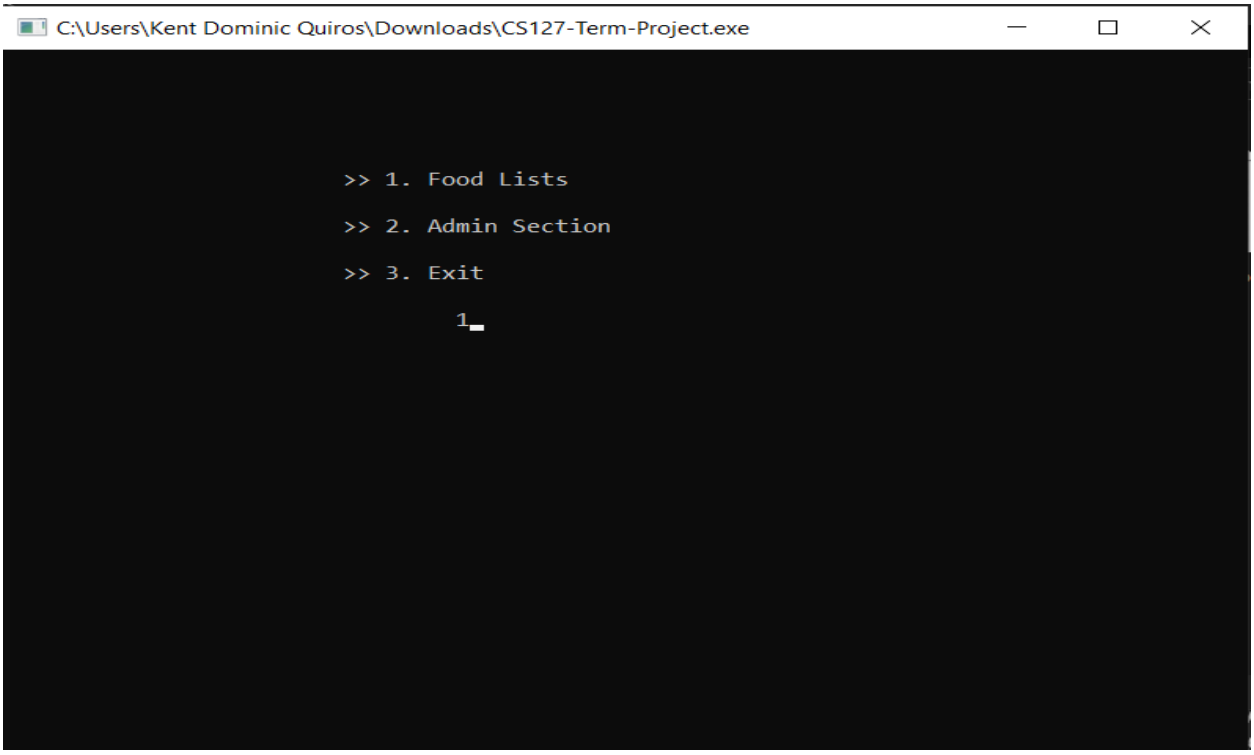
```
#include <iostream>
#include <stdio.h>
#include <stdlib.h>
#include <conio.h>
#include <string.h>
#include <windows.h>
#include <time.h>
#include <fstream>
```

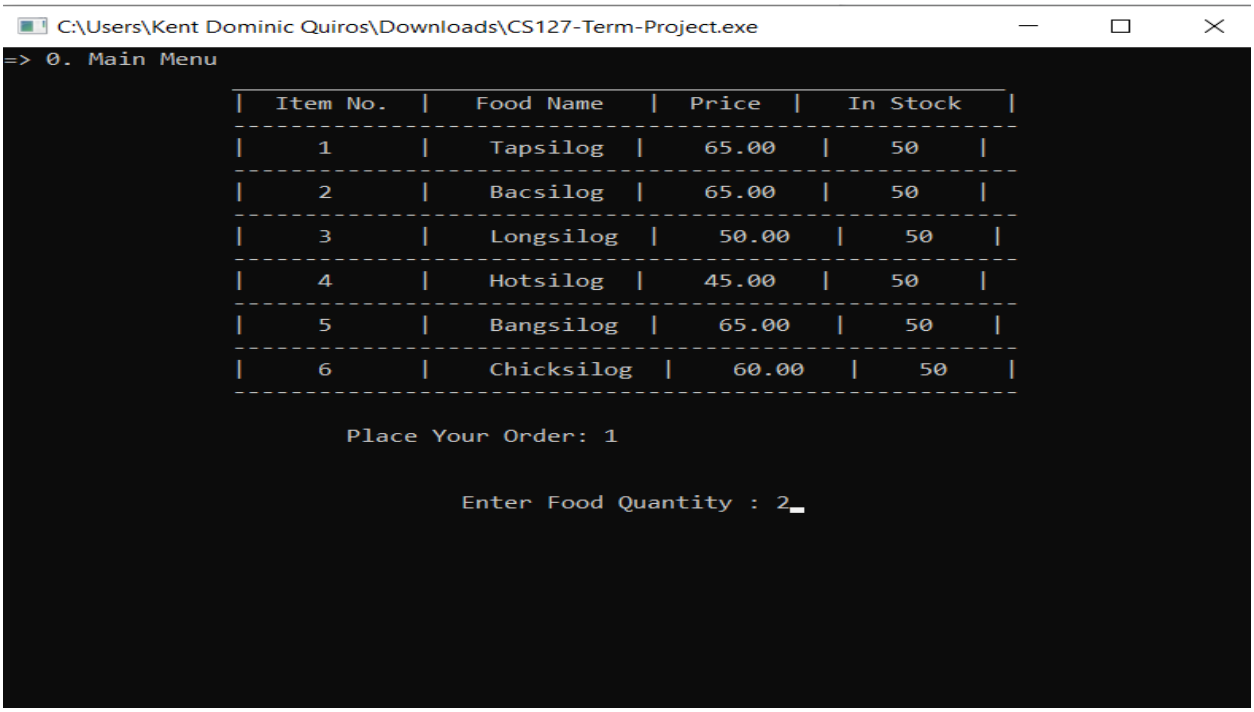
```
ofstream outfile;
outfile.open("Receipt.txt");
outfile << "Thank You for Purchasing Food!" << endl;
```

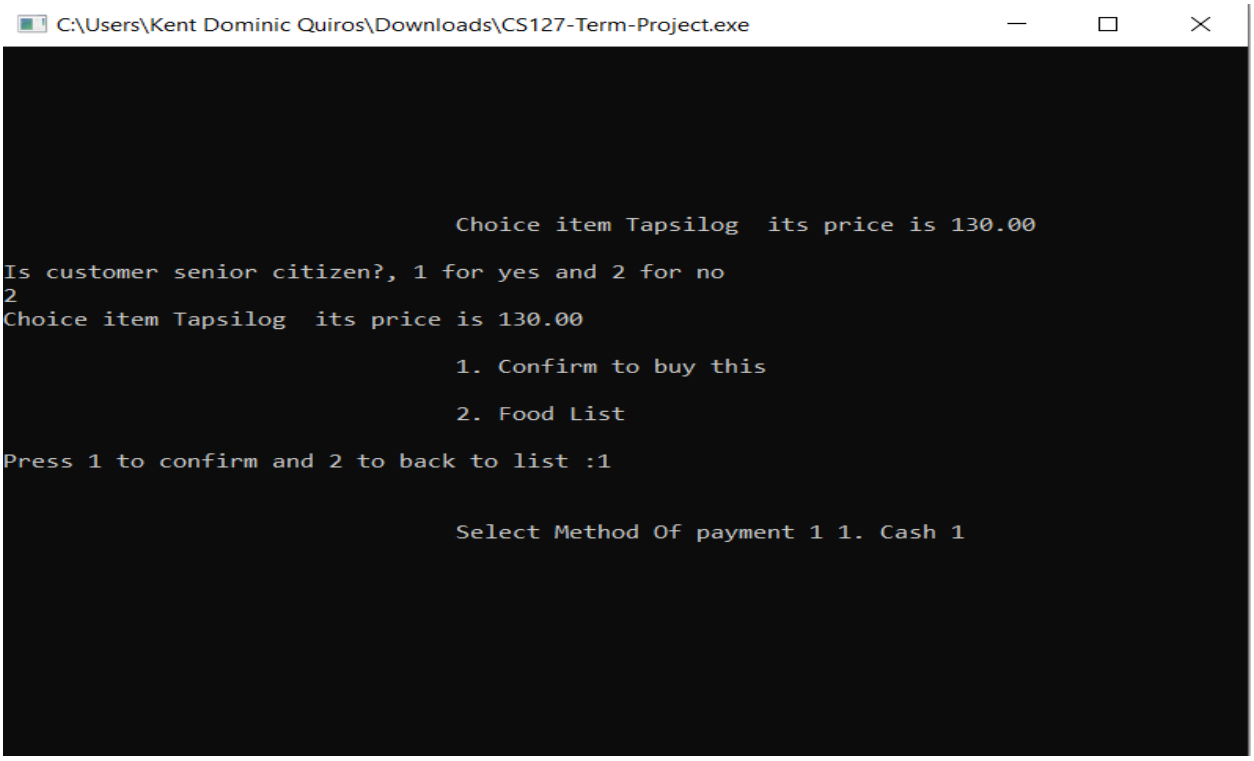
Screenshots

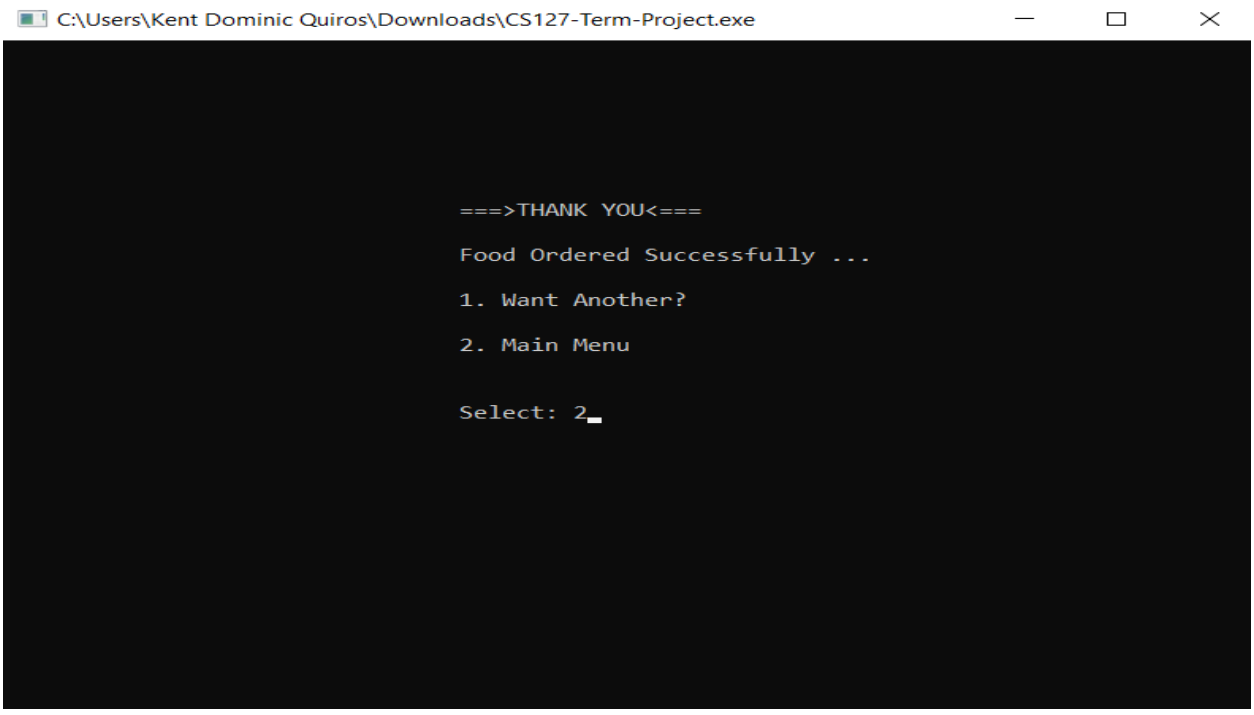


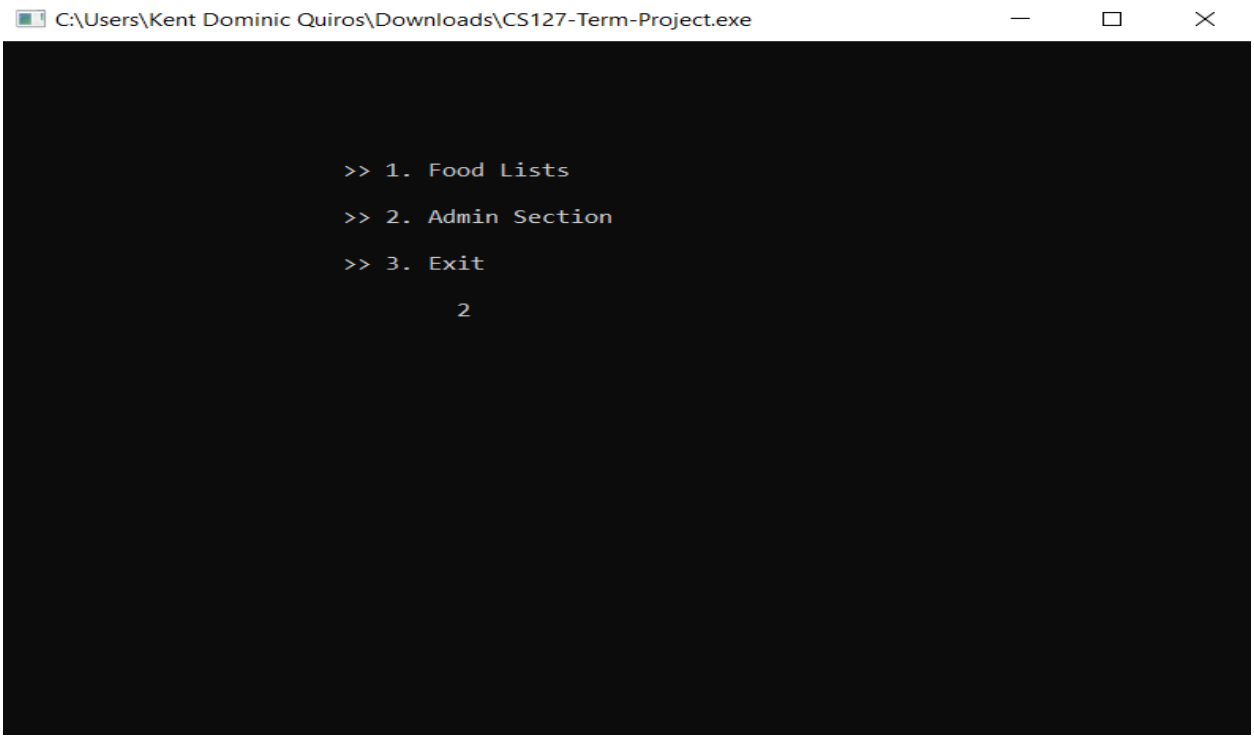


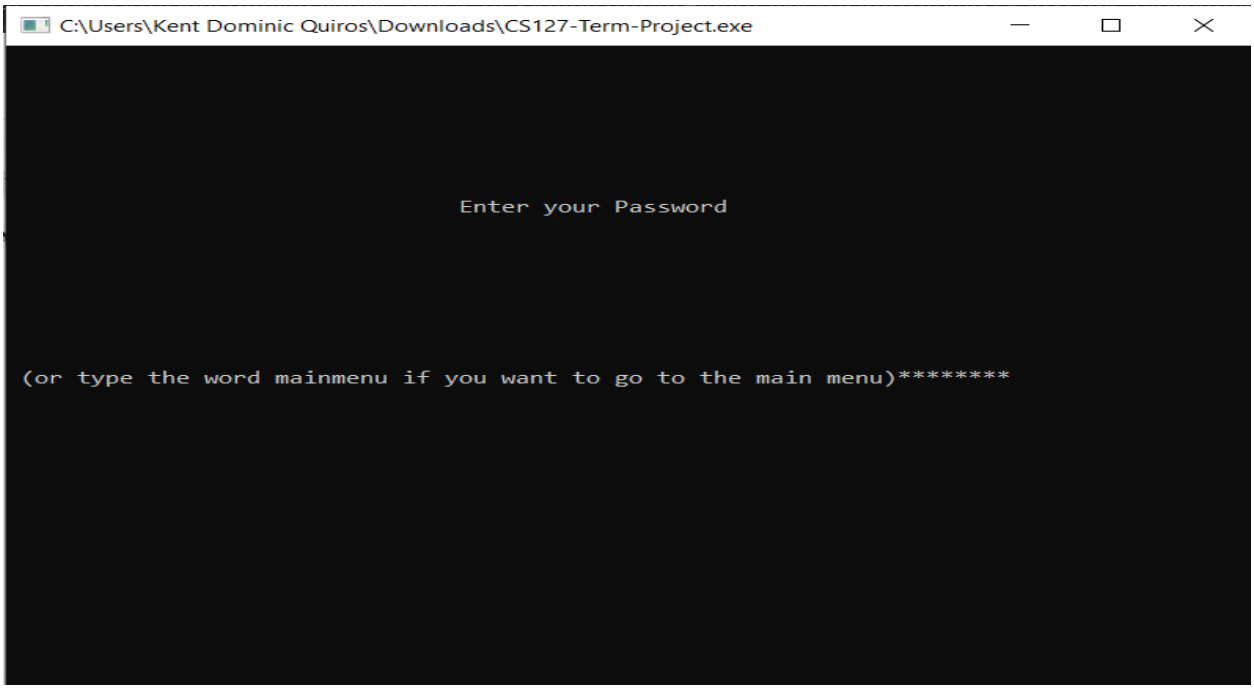

C:\Users\Kent Dominic Quiros\Downloads\CS127-Term-Project.exe
>> 1. Food Lists
>> 2. Admin Section
>> 3. Exit
1

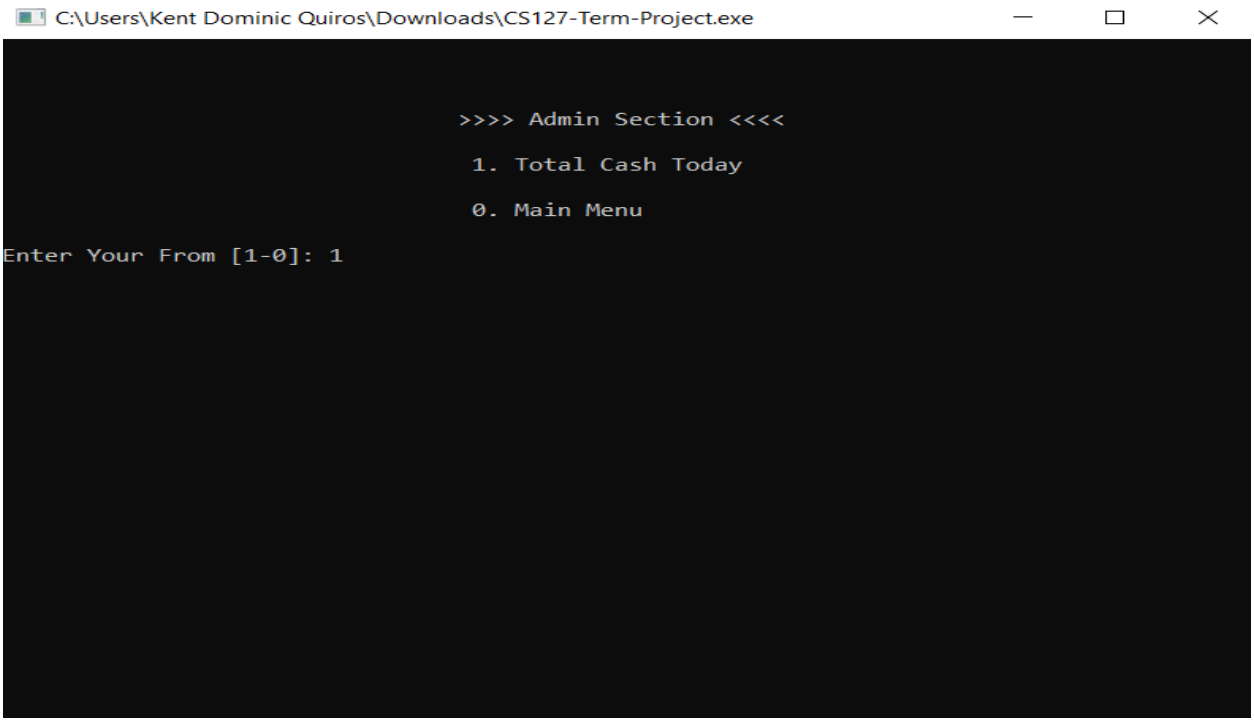

C:\Users\Kent Dominic Quiros\Downloads\CS127-Term-Project.exe
=> 0. Main Menu
Item No.	Food Name	Price	In Stock
1	Tapsilog	65.00	50
2	Bacsilog	65.00	50
3	Longsilog	50.00	50
4	Hotsilog	45.00	50
5	Bangsilog	65.00	50
6	Chicksilog	60.00	50
Place Your Order: 1
Enter Food Quantity : 2

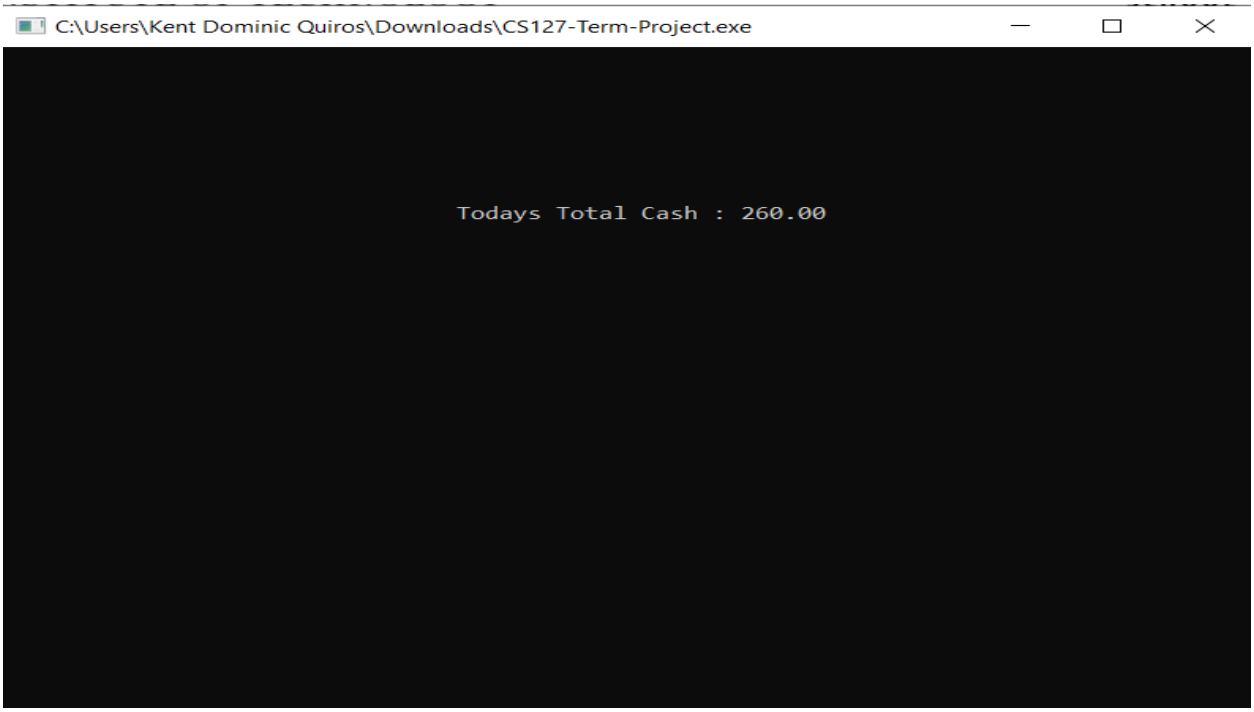

C:\Users\Kent Dominic Quiros\Downloads\CS127-Term-Project.exe
Choice item Tapsilog its price is 130.00
Is customer senior citizen?, 1 for yes and 2 for no
2
Choice item Tapsilog its price is 130.00
1. Confirm to buy this
2. Food List
Press 1 to confirm and 2 to back to list :1
Select Method Of payment 1 1. Cash 1


C:\Users\Kent Dominic Quiros\Downloads\CS127-Term-Project.exe
===>THANK YOU<===
Food Ordered Successfully ...
1. Want Another?
2. Main Menu
Select: 2


C:\Users\Kent Dominic Quiros\Downloads\CS127-Term-Project.exe
>> 1. Food Lists
>> 2. Admin Section
>> 3. Exit
2


C:\Users\Kent Dominic Quiros\Downloads\CS127-Term-Project.exe
Enter your Password
(or type the word mainmenu if you want to go to the main menu)********


C:\Users\Kent Dominic Quiros\Downloads\CS127-Term-Project.exe
>>>> Admin Section <<<<
1. Total Cash Today
0. Main Menu
Enter Your From [1-0]: 1


C:\Users\Kent Dominic Quiros\Downloads\CS127-Term-Project.exe
Todays Total Cash : 260.00

C:\Users\Kent Dominic Quiros\Downloads\CS127-Term-Project.exe

```
>> 1. Food Lists
>> 2. Admin Section
>> 3. Exit
        3
```

C:\Users\Kent Dominic Quiros\Downloads\CS127-Term-Project.exe

```
Thank You For Buying at The Best Kainan!


--------------------------------
Process exited after 1840 seconds with return value 1
Press any key to continue . . .
```