MTS 3033 : PENGATURCARAAN BERORIENTASIKAN OBJEK / *OBJECT ORIENTED PROGRAMMING (OOP)*

STUDY SESSION : SEMESTER 1 (2021/2022)

GROUP NAME : A5

(GROUP PROJECT)

PROJECT 1: ONLINE FOOD ORDERING APPLICATION

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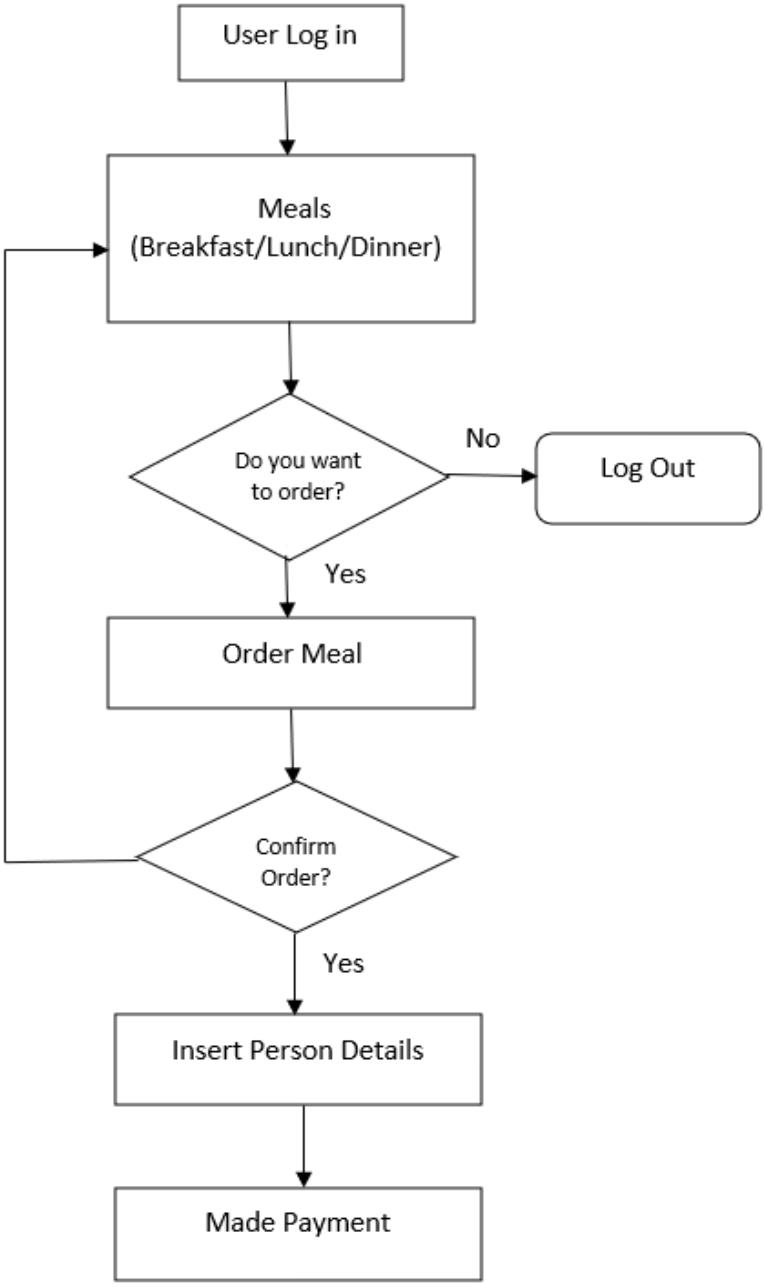
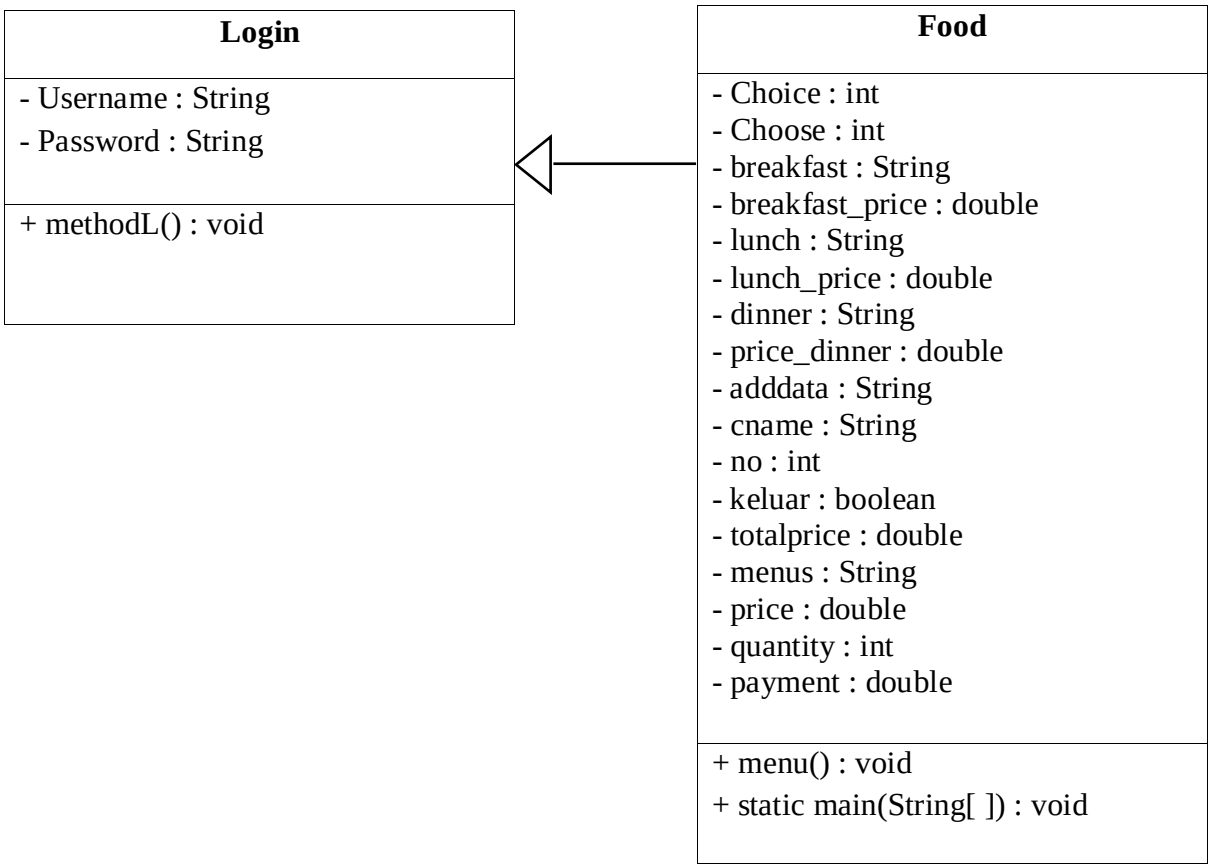
NAMA PENSYARAH: PUAN ASMARA BINTI ALIAS

FLOWCHART

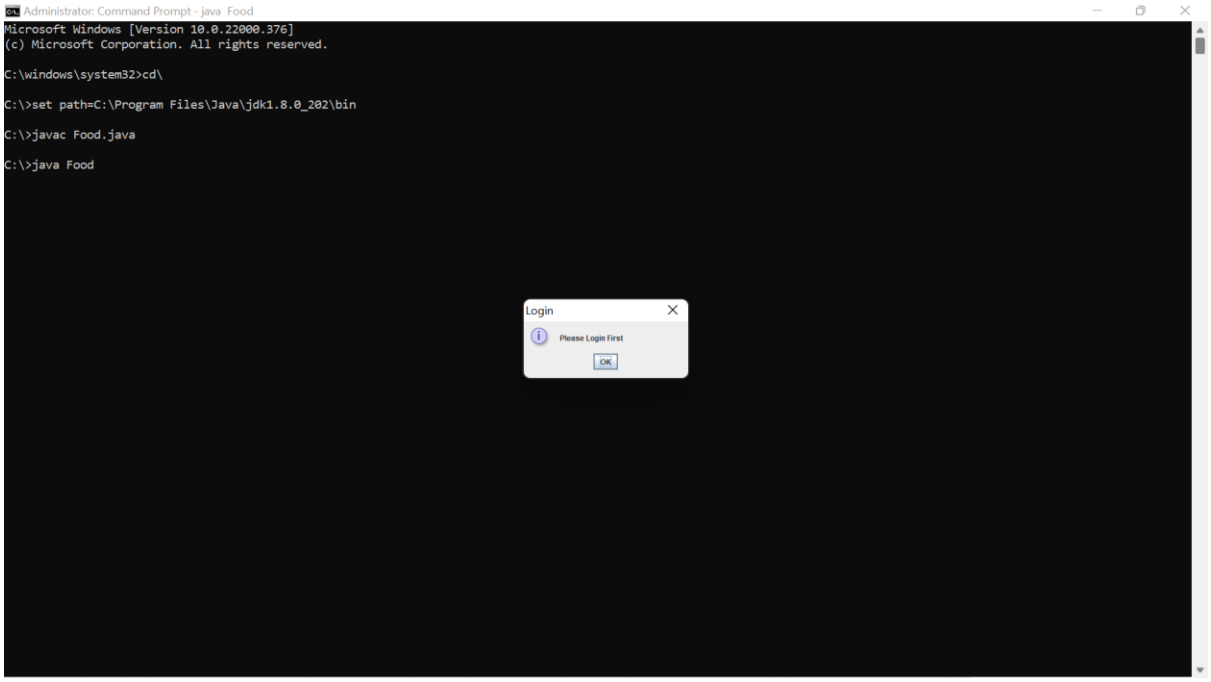

User Log in
Meals
(Breakfast/Lunch/Dinner)
Do you want
to order?
No
Log Out
Yes
Order Meal
Confirm
Order?
Yes
Insert Person Details
Made Payment

CLASS DIAGRAM



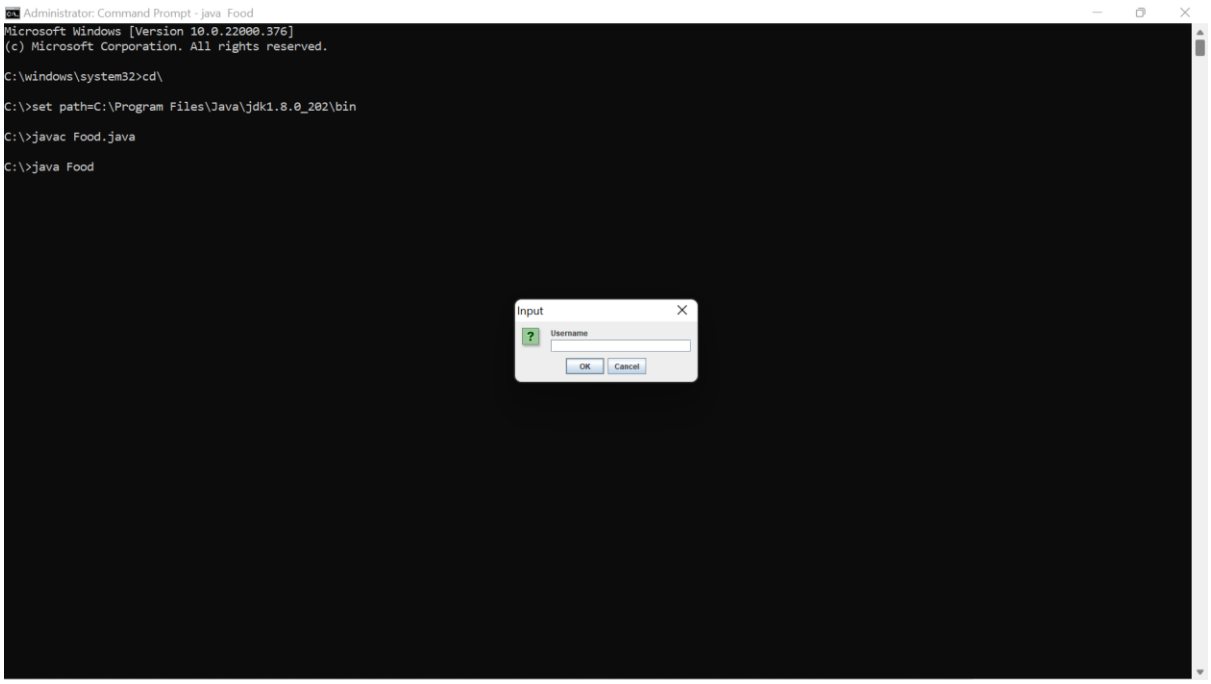
COMMAND PROMPT

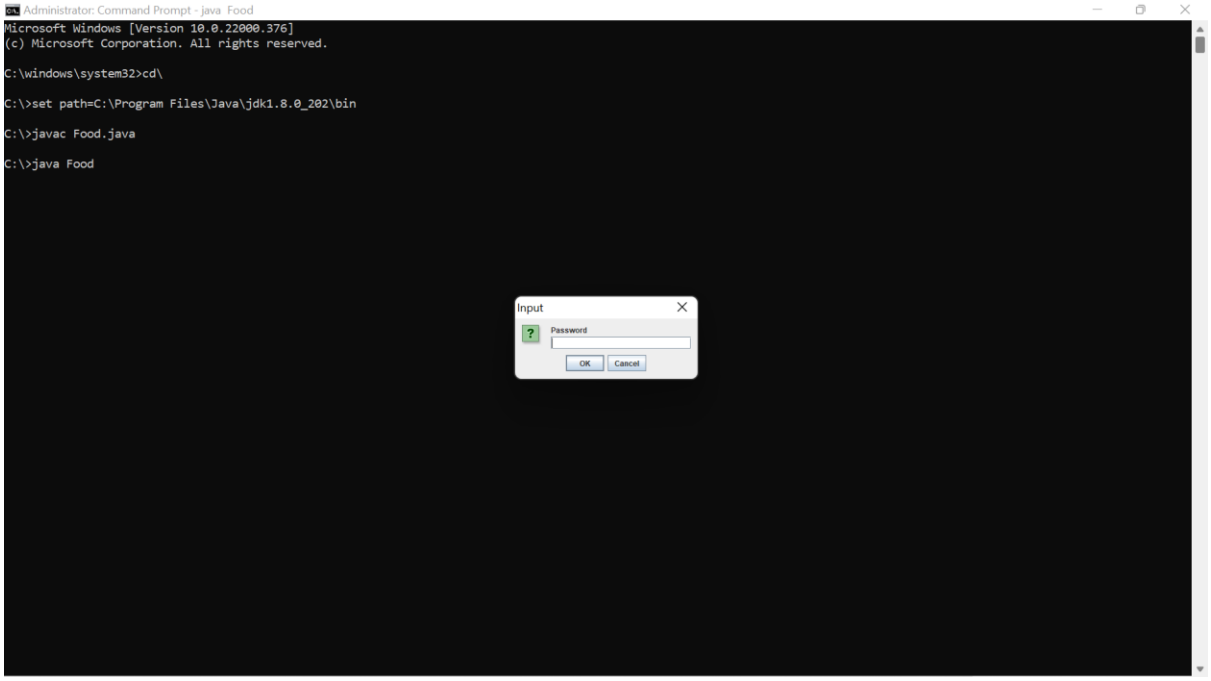
1. Login



- Dialog box with Login message will appear.

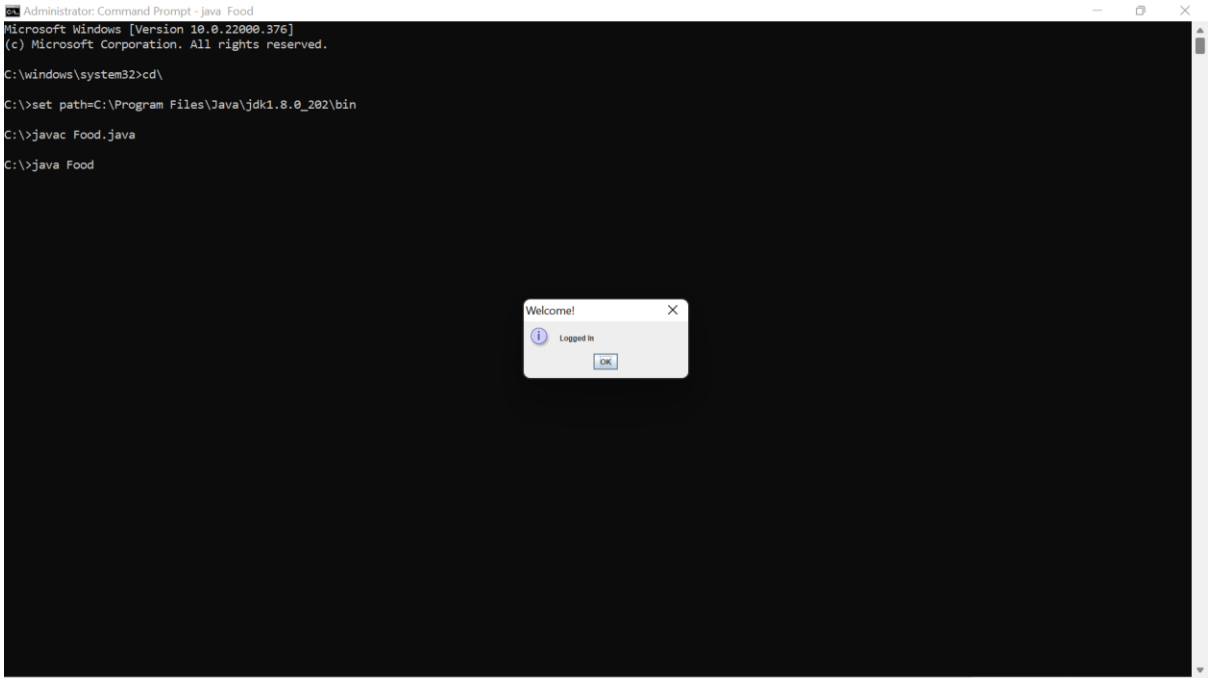
Username and Password





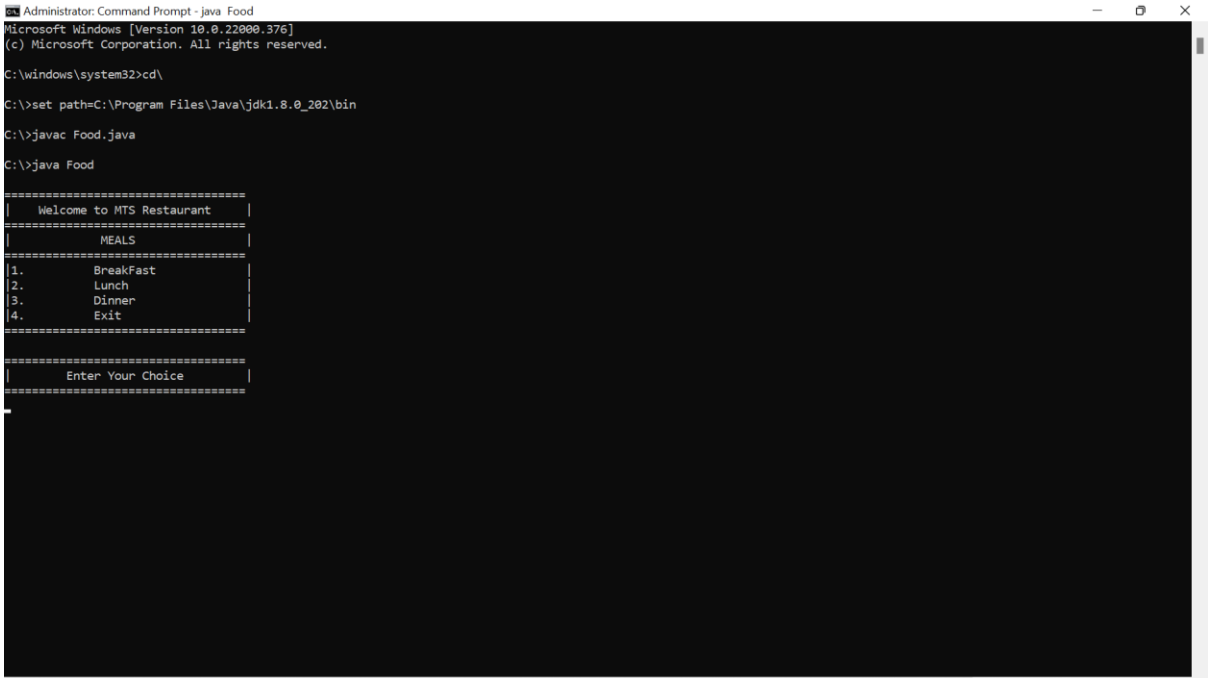
- Insert username and password to start the order
- *any username and password are applicable to use*

Logged in



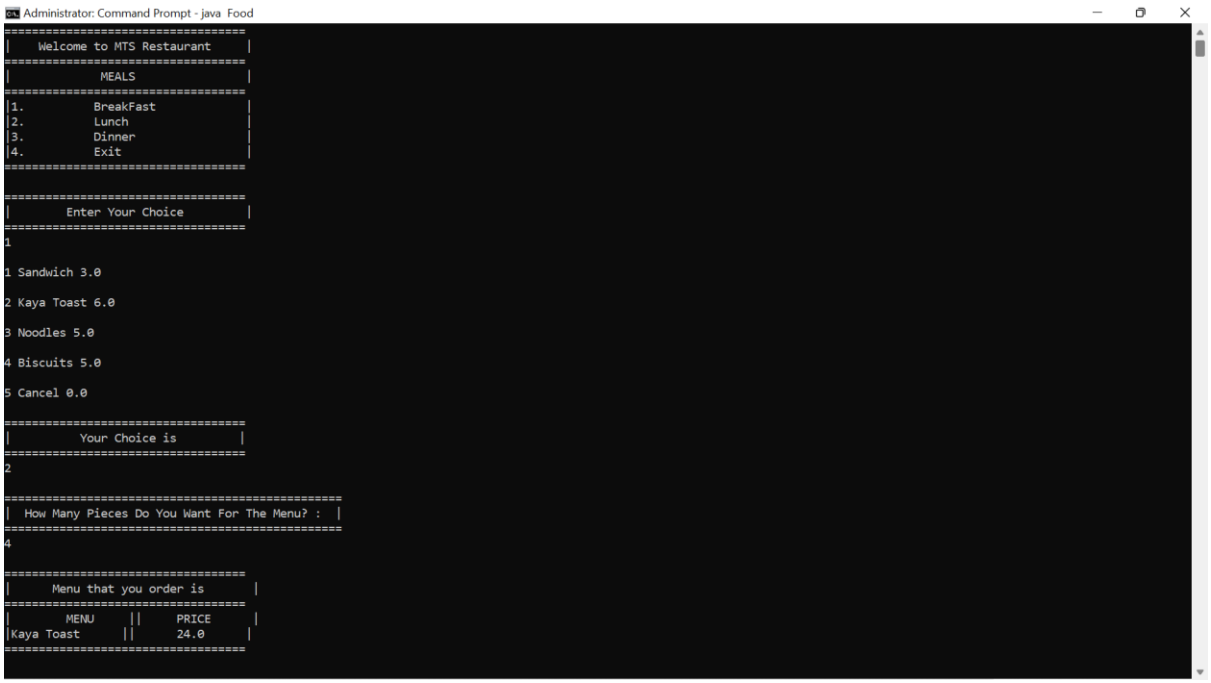
- Logged in message will appear after you insert username and password

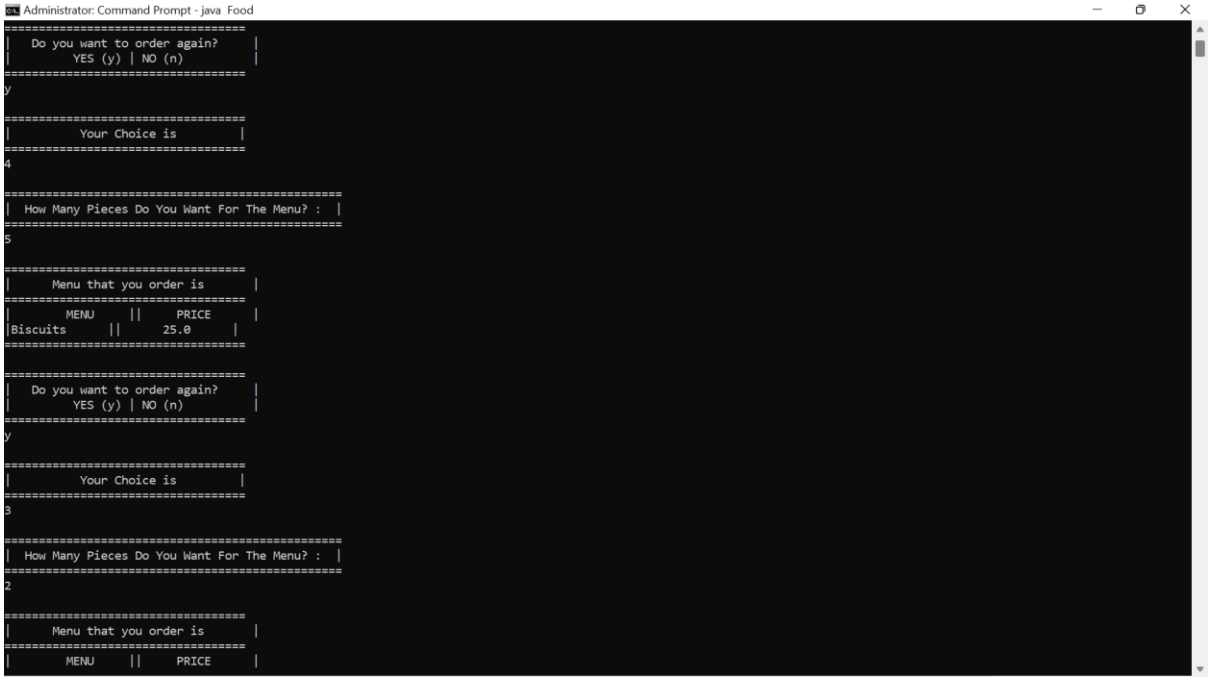
2. Meals (Main Menu)

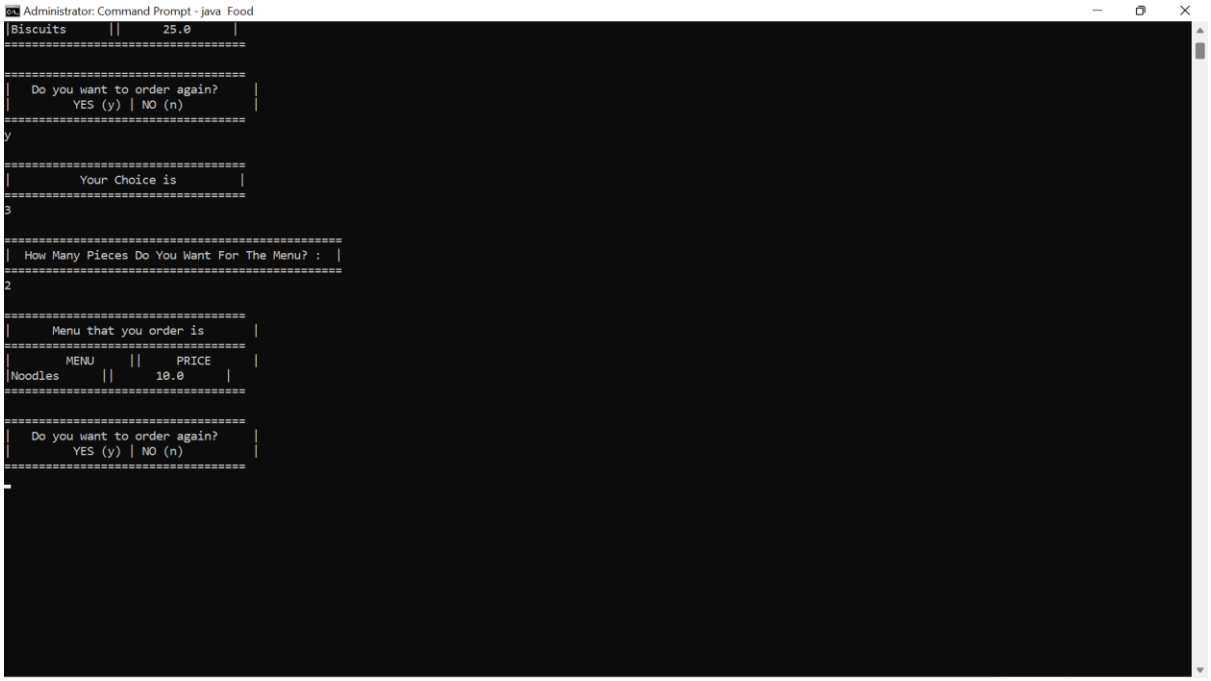


- You will see all the meals that include breakfast, lunch and menu
- You should input your choice to see menu on meals.

3. Order Breakfast Menu





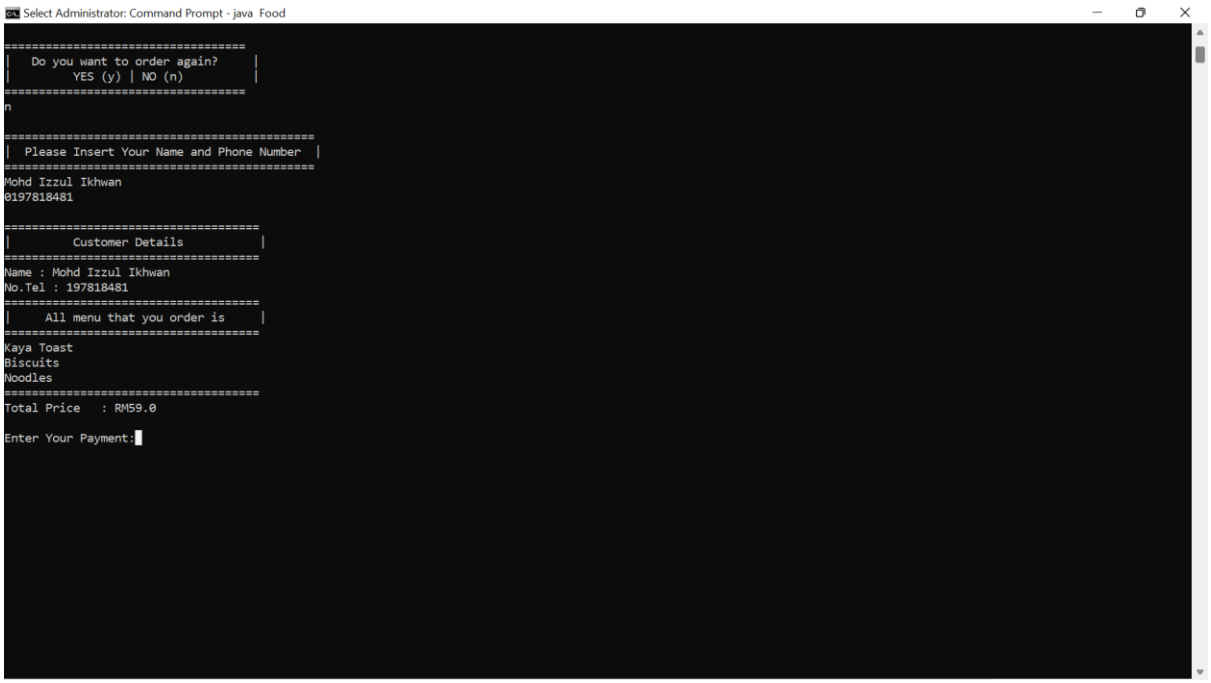


- When, the option has been entered, the output will display the name of the menu that you choose and its price.
- After that, the programme will ask you how many quantity do you want for the menu you order.
- The display will ask you to enter yes (y) or no (n) input.
- If the input is (y), the display will return to the breakfast menu option again and you must select another menu that you want.

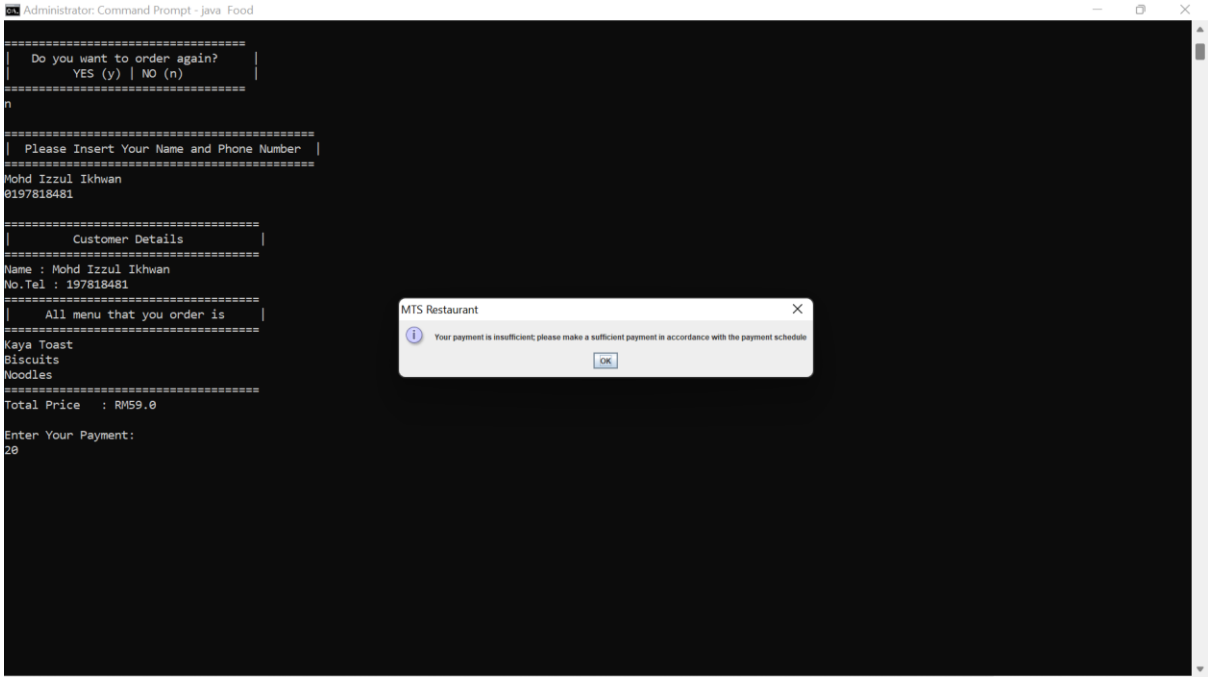
Customer Details

- If the input is no (n) in the yes or no option after ordering food, the display will ask you to enter your name and phone number for the customer details.

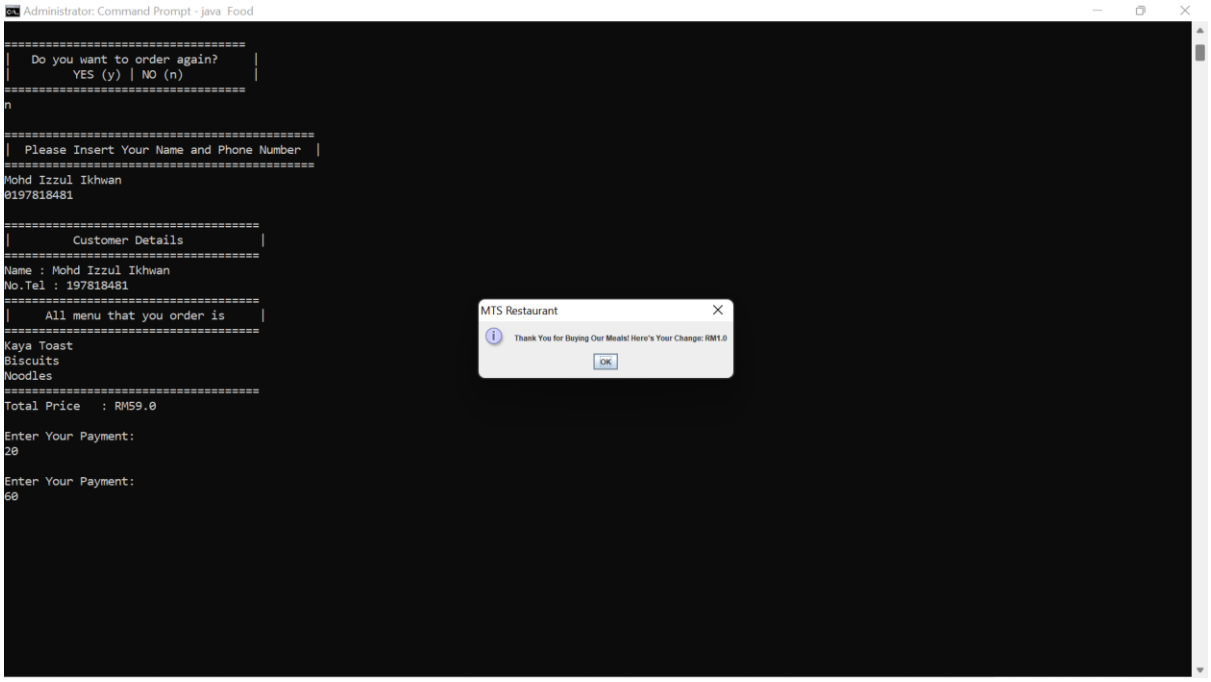
Payment



- After you entering your customer details, the programme will list all menu that you order along with the total price for your order.



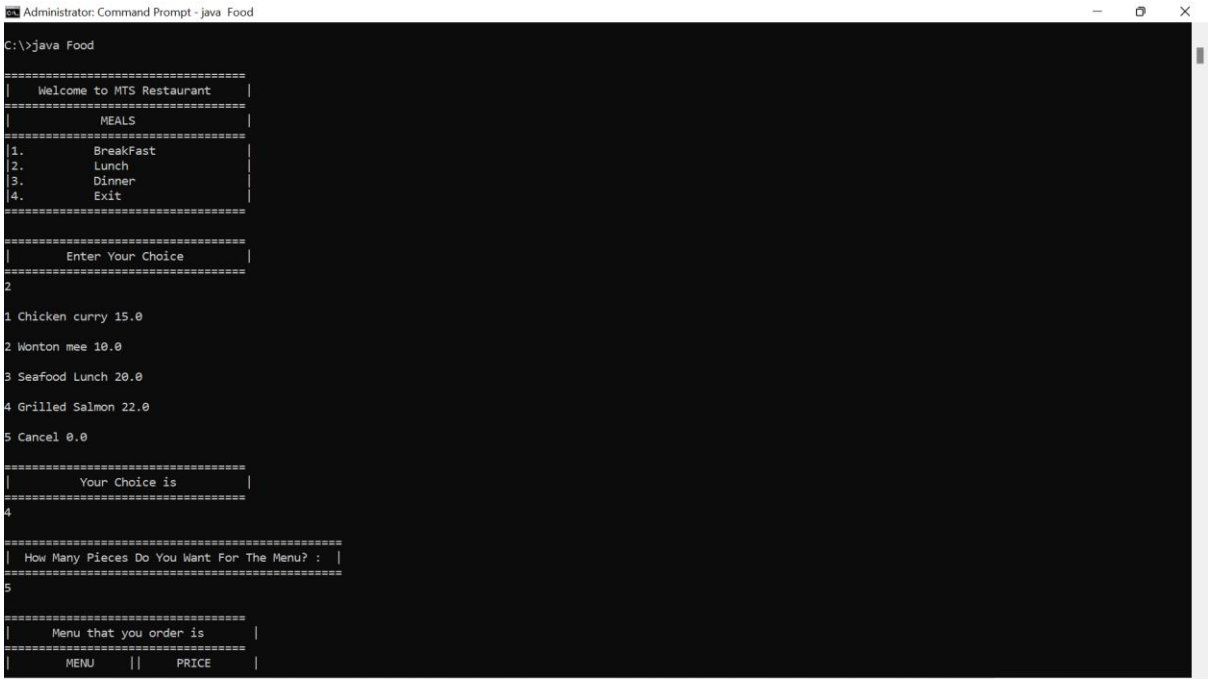
- If you payment is less than the total price, the programme will notify you with the message dialog and you need to reentered your payment.

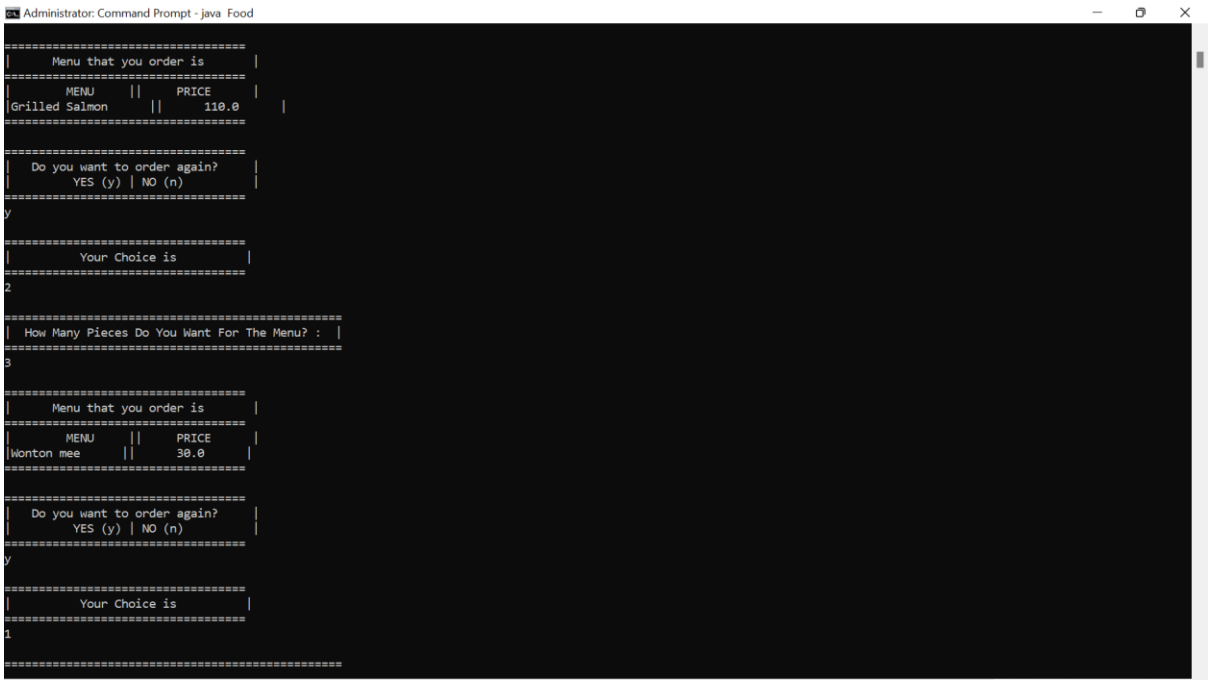


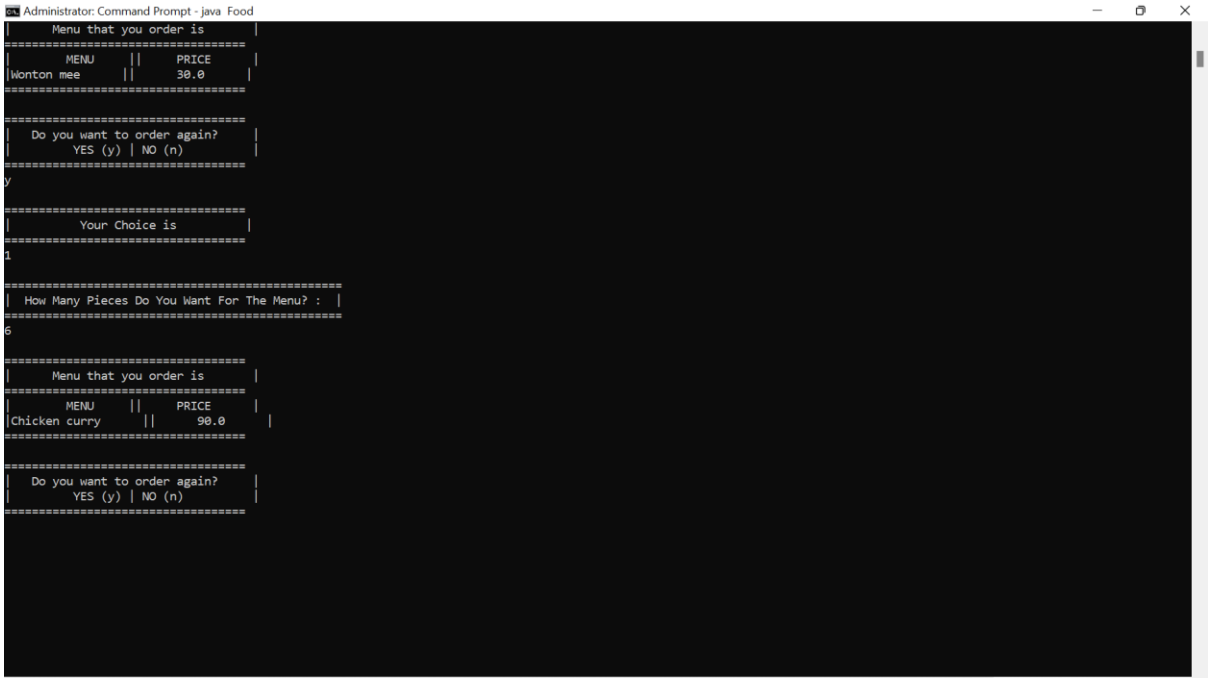
- If your payment is more than the total price, the programme will shown you ‘thanks for buying our meals’ and give your chance.

- If you select cancel, you'll bring to the meals menu again.

4. Order Lunch Menu

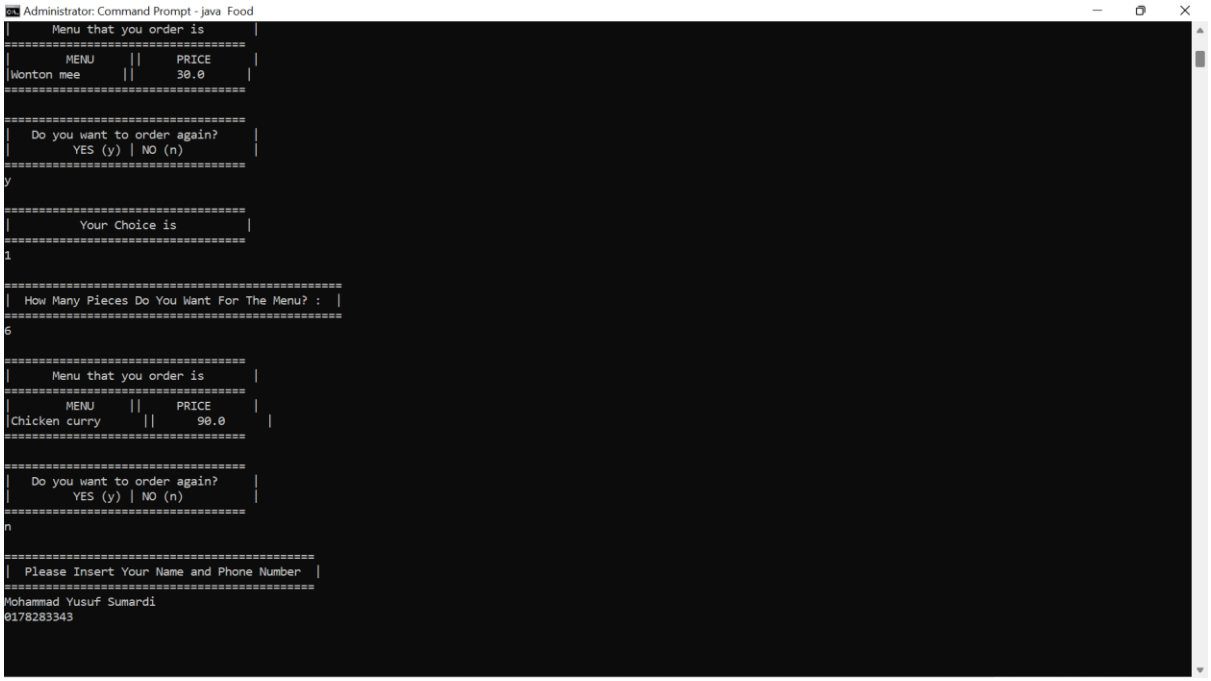






- When, the option has been entered, the output will display the name of the menu that you choose and its price.
- After that, the programme will ask you how many quantity do you want for the menu you order.
- The display will ask you to enter yes (y) or no (n) input.
- If the input is yes (y), the display will return to the breakfast menu option again and you must select another menu that you want.

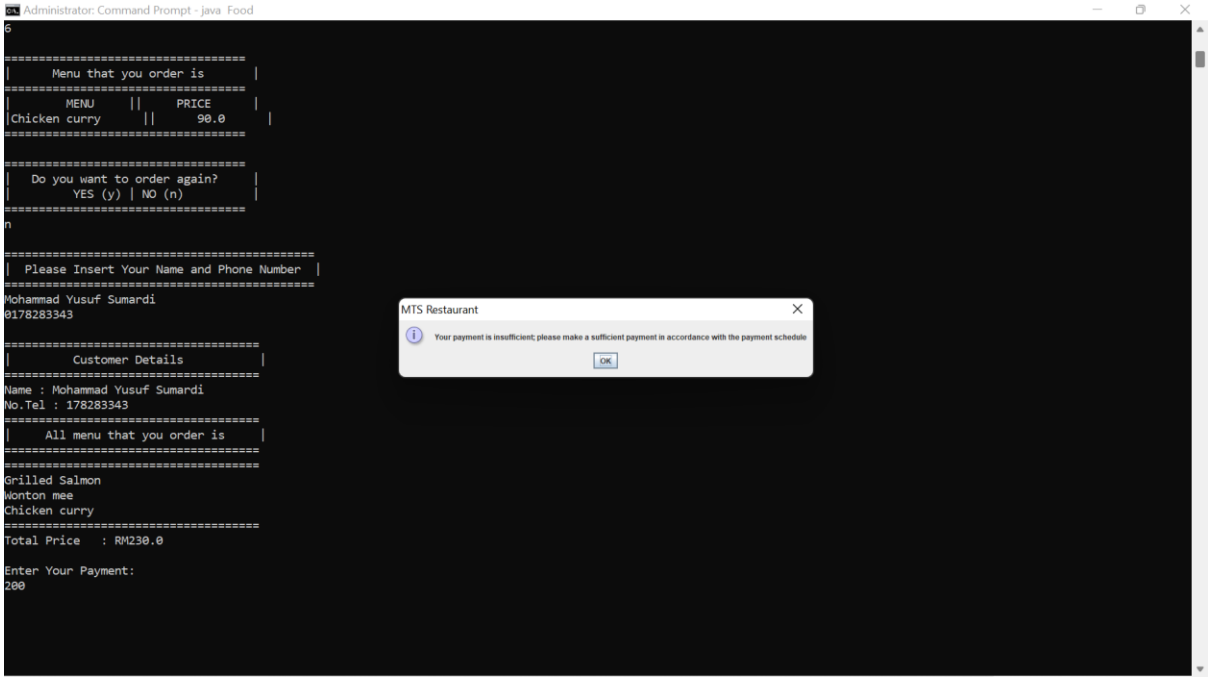
Customer Details



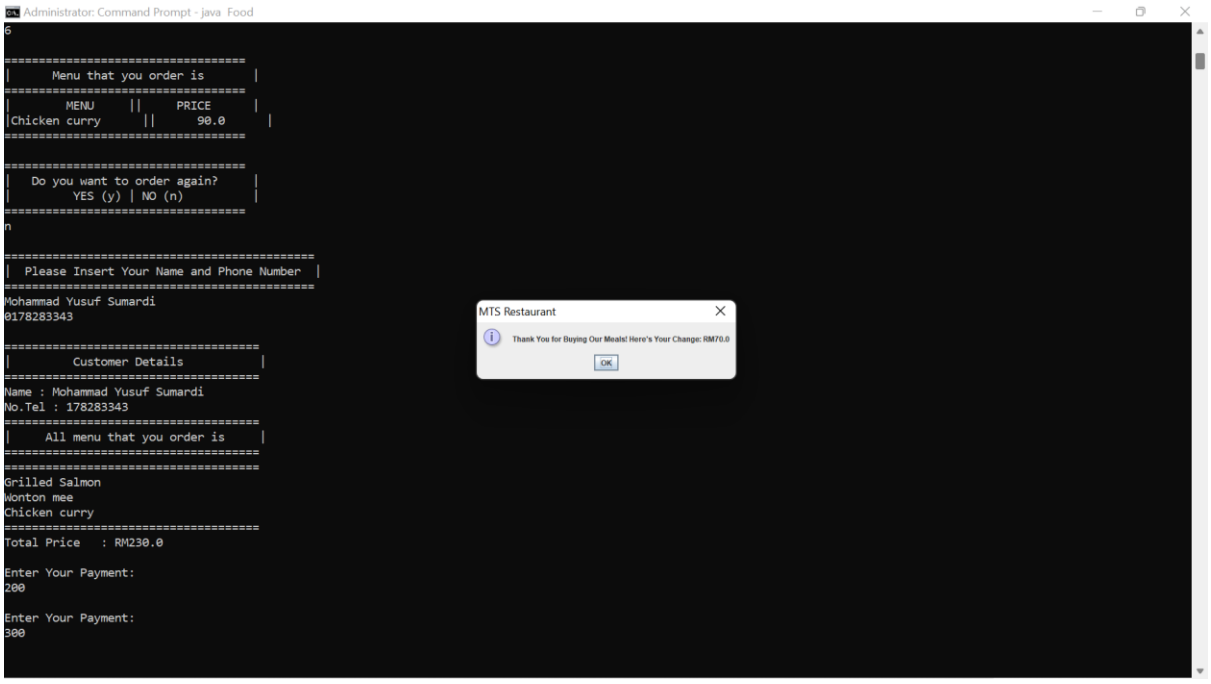
- If the input is no (n) in the yes or no option after ordering food, the display will ask you to enter your name and phone number for the customer details.

Payment

- After you entering your customer details, the programme will list all menu that you order along with the total price for your order.



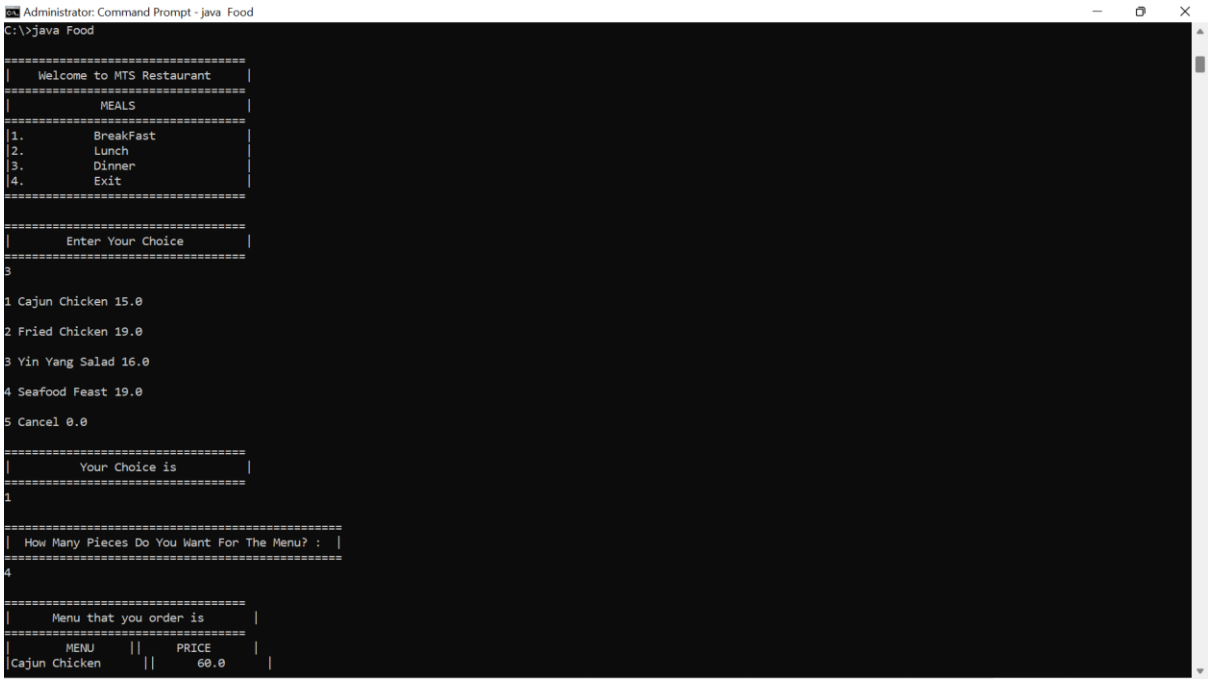
- If you payment is less than the total price, the programme will notify you with the message dialog and you need to reentered your payment.



- If your payment is more than the total price, the programme will shown you ‘thanks for buying our meals’ and give your chance.

- If you select the back to meals, you'll bring to the meals menu again.

5. Order Dinner Menu

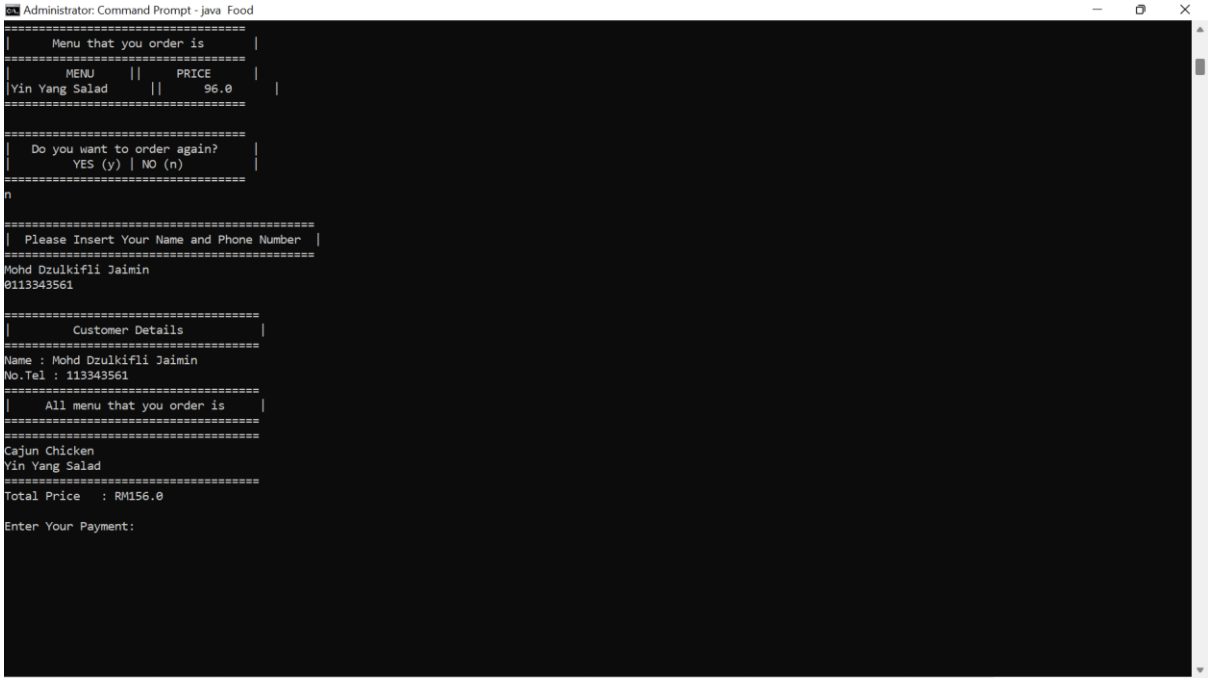


- When, the option has been entered, the output will display the name of the menu that you choose and its price.
- After that, the programme will ask you how many quantity do you want for the menu you order.
- The display will ask you to enter yes (y) or no (n) input.
- If the input is (y), the display will return to the breakfast menu option again and you must select another menu that you want.

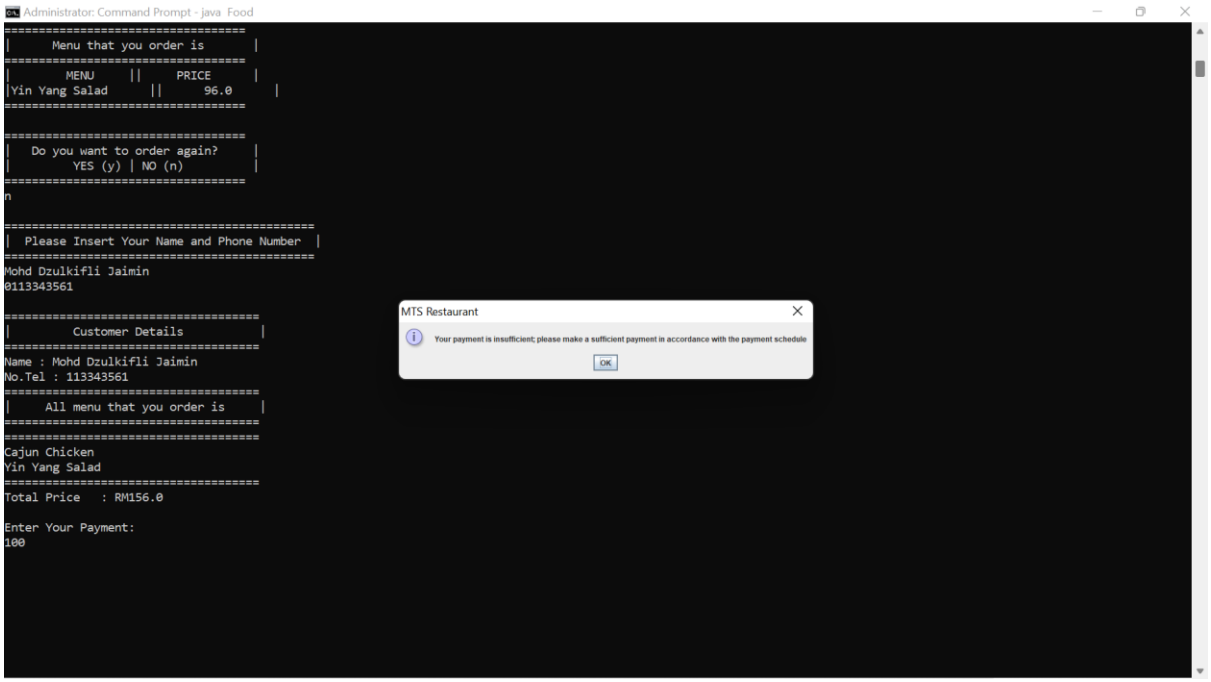
Customer Details

- If the input is no (n) in the yes or no option after ordering food, the display will ask you to enter your name and phone number for customer details.

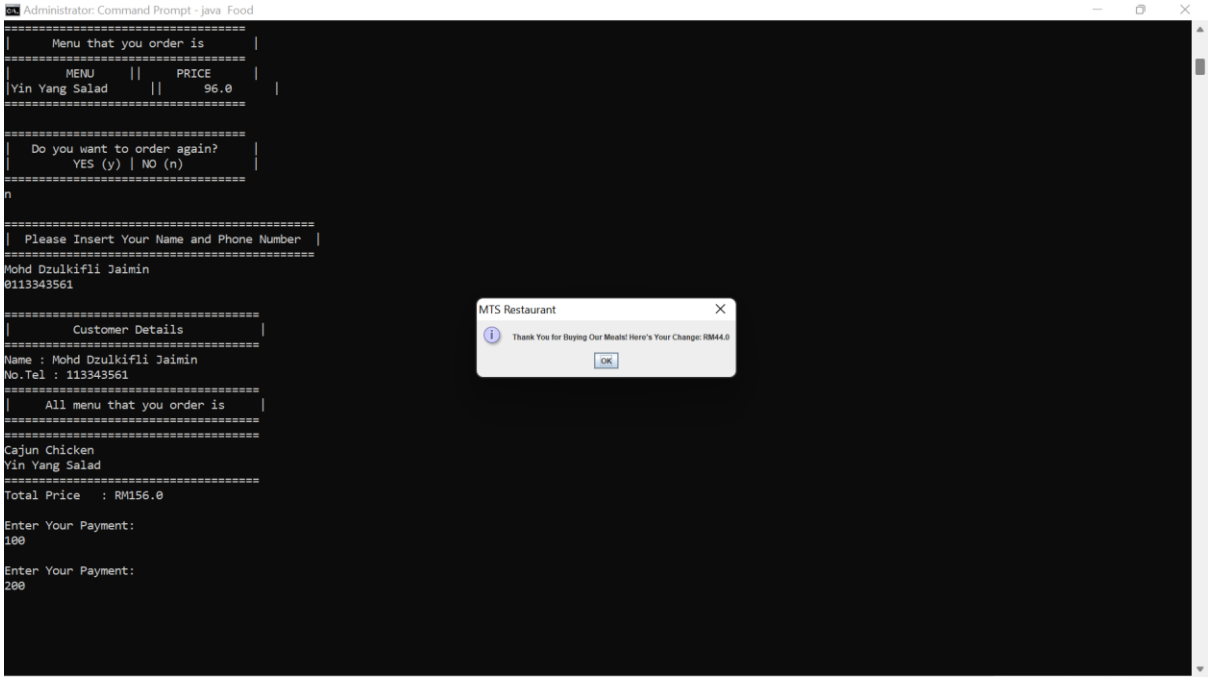
Payment



- After you entering your customer details, the programme will list all menu that you order along with the total price for your order.



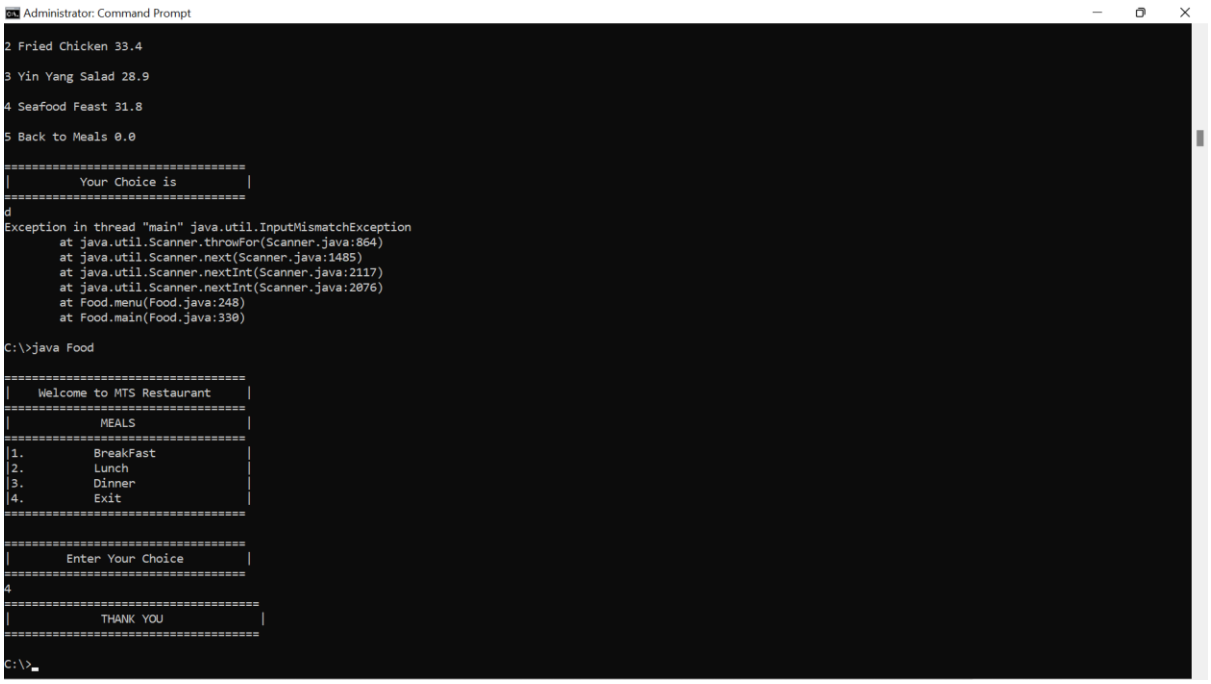
- If you payment is less than the total price, the programme will notify you with the message dialog and you need to reentered your payment.



- If your payment is more than the total price, the programme will shown you ‘thanks for buying our meals’ and give your chance.

- If you select the back to meals, you’ll bring to the meals menu again.

6. Exit Without Order.



- This choice is to cancelled you from ordering.

PROGRAM CODE

```
import java.io.BufferedReader;

import java.io.InputStreamReader;

import java.util.Scanner;

import javax.swing.*;


class Login

{

    String Username;

    String Password;


public void methodL()

{

        JOptionPane.showMessageDialog(null, "Please Login First", "Login",
JOptionPane.INFORMATION_MESSAGE);


        Username= JOptionPane.showInputDialog("Username");

        Password= JOptionPane.showInputDialog("Password");


        JOptionPane.showMessageDialog(null, "Logged In", "MTS RESTAURANT",
JOptionPane.INFORMATION_MESSAGE);

 }

}


public class Food extends Login {

 static int choice;

 static int choose=0;


    public void menu(){


    String[] breakfast={"Sandwich","Kaya
Toast","Noodles","Biscuits","Cancel"};

    float[] breakfast_price={3,6,5,5,0};
```

```
    String[] lunch={"Chicken curry","Wonton mee","Seafood Lunch","Grilled
Salmon","Cancel"};

    float[] lunch_price={15,10,20,22,0};


    String[] dinner={"Cajun Chicken","Fried Chicken","Yin Yang
Salad","Seafood Feast","Cancel"};

    float[] price_dinner={15,19,16,19,0};

    String adddata,cname;

    int no;


    System.out.println();

    System.out.println("==================================");

    System.out.println("|    Welcome to MTS Restaurant     |");

    System.out.println("==================================");

    System.out.println("|             MEALS                |");

    System.out.println("==================================");

    System.out.println("|1.          BreakFast             |");

    System.out.println("|2.          Lunch                 |");

    System.out.println("|3.          Dinner                |");

    System.out.println("|4.          Exit                  |");

    System.out.println("==================================");


    BufferedReader input2 = new BufferedReader (new InputStreamReader
(System.in));

        int i = 0;

        float totalprice = 0;

        String menus[] = new String [100];

        float price[] = new float [100];

                int quantity[] = new int [100];


    Scanner menu = new Scanner(System.in);


        System.out.println();

        System.out.println("==================================");

        System.out.println("|        Enter Your Choice         |");

        System.out.println("==================================");
```

```
choice = menu.nextInt();
    boolean keluar;

do{

    if (choice==1){
    for(int b=0;b<breakfast.length;b++){
    System.out.println();
    System.out.println(b+1 +" "+breakfast[b] +" " +breakfast_price[b]);
    }
    {
    do{
    System.out.println();
    System.out.println("====================================");
    System.out.println("|          Your Choice is         |");
    System.out.println("====================================");
    int pil = menu.nextInt();

    if(pil<breakfast.length){
        menus[i] = breakfast[pil-1];
        price[i] = breakfast_price[pil-1];
                quantity[i] = 0;
    }else if(pil == breakfast.length){
        menu();
    }else{
        System.out.println("|   Your choice is not in the menu    |");
        menus[i] = "Nothing";
        price[i] = 0;
    }


        Scanner input = new Scanner(System.in);

        System.out.println();
```

```
System.out.println("================================================");
            System.out.println("|  How Many Pieces Do You Want For The
Menu? :  |");

System.out.println("================================================");
            quantity[i]=menu.nextInt();


            System.out.println();
            System.out.println("==================================");
            System.out.println("|      Menu that you order is       |");
            System.out.println("==================================");
            System.out.println("|        MENU     ||     PRICE      |");
            System.out.println("|" + menus[i] + "      "+  "||"+  "      "+
quantity[i]*price[i]  +  "      "+"|");
            System.out.println("==================================");


            System.out.println();
            System.out.println("==================================");
            System.out.println("|   Do you want to order again?     |");
            System.out.println("|         YES (y) | NO (n)          |");
            System.out.println("==================================");
            adddata = input.nextLine();
            i++;
            }while(adddata.equalsIgnoreCase("y"));


            Scanner s = new Scanner(System.in);
            System.out.println();

System.out.println("============================================");
            System.out.println("|  Please Insert Your Name and Phone Number
|");

System.out.println("============================================");
            cname = s.nextLine();
            no = s.nextInt();
```

```
        }

        System.out.println();
        System.out.println("====================================");
        System.out.println("|         Customer Details           |");
        System.out.println("====================================");
        System.out.println("Name : "+cname);
        System.out.println("No.Tel : "+no);
        System.out.println("====================================");
        System.out.println("|     All menu that you order is     |");
        System.out.println("====================================");
        for (int a = 0; a<i;a++){
            System.out.print(menus[a]+"\n");
        }
        System.out.println("====================================");
        for (int b = 0; b<i;b++){
            totalprice = totalprice + quantity[b]*price[b];
        }

        System.out.println("Total Price   : RM"+totalprice);
        double payment=0;

        do
        {
         System.out.println();
         System.out.println("Enter Your Payment: ");
         payment = menu.nextInt();

                  if(totalprice > payment)
                   {
           JOptionPane.showMessageDialog(null, "Your payment is
insufficient; please make a sufficient payment in accordance with the
payment schedule", "MTS Restaurant", JOptionPane.INFORMATION_MESSAGE);

                   }
```

```
        }

        while(totalprice > payment);

         JOptionPane.showMessageDialog(null, "Thank You for Buying Our
Meals! Here's Your Change: RM" +(payment-totalprice), "MTS Restaurant",
JOptionPane.INFORMATION_MESSAGE);

        }
        else if (choice==2){
         for(int a=0;a<lunch.length;a++){
        System.out.println();
        System.out.println(a+1 +" "+lunch[a] +" " +lunch_price[a]);
        }

        do{
        System.out.println();
        System.out.println("==================================");
        System.out.println("|          Your Choice is          |");
        System.out.println("==================================");
        int pil = menu.nextInt();
        if(pil<lunch.length){
            menus[i] = lunch[pil-1];
            price[i] = lunch_price[pil-1];
        }else if(pil == lunch.length){
            menu();
        }else{
            System.out.println("|   Your choice is not in the menu    |");
            menus[i] = "Nothing";
            price[i] = 0;
        }
            Scanner input = new Scanner(System.in);

            System.out.println();

System.out.println("================================================");
```

```
            System.out.println("|  How Many Pieces Do You Want For The
Menu? :  |");

System.out.println("================================================");
            quantity[i]=menu.nextInt();


            System.out.println();
            System.out.println("====================================");
            System.out.println("|      Menu that you order is       |");
            System.out.println("====================================");
            System.out.println("|        MENU     ||     PRICE      |");
            System.out.println("|" + menus[i] + "      "+  "||"+  "      "+
quantity[i]*price[i]  +  "      "+"|");
            System.out.println("====================================");


            System.out.println();
            System.out.println("====================================");
            System.out.println("|   Do you want to order again?     |");
            System.out.println("|         YES (y) | NO (n)          |");
            System.out.println("====================================");
            adddata = input.nextLine();
            i++;
            }while(adddata.equalsIgnoreCase("y"));


            Scanner s = new Scanner(System.in);
            System.out.println();

System.out.println("============================================");
            System.out.println("|  Please Insert Your Name and Phone Number
|");

System.out.println("============================================");
            cname = s.nextLine();
            no = s.nextInt();


        System.out.println();
        System.out.println("====================================");
```

```
        System.out.println("|         Customer Details           |");
        System.out.println("====================================");
        System.out.println("Name : "+cname);
        System.out.println("No.Tel : "+no);
        System.out.println("====================================");
        System.out.println("|     All menu that you order is     |");
        System.out.println("====================================");
        System.out.println("====================================");
        for (int a = 0; a<i;a++){
            System.out.print(menus[a]+"\n");
        }
        System.out.println("====================================");
        for (int b = 0; b<=i;b++){
            totalprice = totalprice + (quantity[b] * price[b]);
        }
        System.out.println("Total Price   : RM"+totalprice);
        double payment=0;

        do
        {
         System.out.println();
         System.out.println("Enter Your Payment: ");
         payment = menu.nextInt();

         if(totalprice > payment)
                 {
                   JOptionPane.showMessageDialog(null, "Your payment is
insufficient; please make a sufficient payment in accordance with the
payment schedule", "MTS Restaurant", JOptionPane.INFORMATION_MESSAGE);

         }
        }

        while(totalprice >= payment);
```

```
         JOptionPane.showMessageDialog(null, "Thank You for Buying Our
Meals! Here's Your Change: RM" +(payment-totalprice), "MTS Restaurant",
JOptionPane.INFORMATION_MESSAGE);


        }
        else if (choice==3){
         for(int a=0;a<dinner.length;a++){
        System.out.println();
        System.out.println(a+1 +" "+dinner[a] +" " +price_dinner[a]);
        }

        do{
        System.out.println();
        System.out.println("====================================");
        System.out.println("|          Your Choice is          |");
        System.out.println("====================================");
        int pil = menu.nextInt();

        if(pil<dinner.length){
            menus[i] = dinner[pil-1];
            price[i] = price_dinner[pil-1];
        }else if(pil == dinner.length){
            menu();
        }else{
            System.out.println("|   Your choice is not in the menu    |");
            menus[i] = "Nothing";
            price[i] = 0;
        }
            Scanner input = new Scanner(System.in);

            System.out.println();

System.out.println("================================================");
            System.out.println("|  How Many Pieces Do You Want For The
Menu? :  |");
```

```
System.out.println("================================================");
            quantity[i]=menu.nextInt();


            System.out.println();
            System.out.println("==================================");
            System.out.println("|      Menu that you order is       |");
            System.out.println("==================================");
            System.out.println("|        MENU     ||     PRICE      |");
            System.out.println("|" + menus[i] + "      "+  "||"+  "      "+
(quantity[i]*price[i])  +  "      "+"|");
            System.out.println("==================================");


            System.out.println();
            System.out.println("==================================");
            System.out.println("|   Do you want to order again?     |");
            System.out.println("|         YES (y) | NO (n)          |");
            System.out.println("==================================");
            adddata = input.nextLine();
            i++;
            }while(adddata.equalsIgnoreCase("y"));


            Scanner s = new Scanner(System.in);
            System.out.println();

System.out.println("============================================");
            System.out.println("|  Please Insert Your Name and Phone Number
|");

System.out.println("============================================");
            cname = s.nextLine();
            no = s.nextInt();
        System.out.println();
        System.out.println("==================================");
        System.out.println("|         Customer Details          |");
        System.out.println("==================================");
```

```
        System.out.println("Name : "+cname);
        System.out.println("No.Tel : "+no);
        System.out.println("====================================");
        System.out.println("|     All menu that you order is     |");
        System.out.println("====================================");
        System.out.println("====================================");
        for (int a = 0; a<i;a++){
            System.out.print(menus[a]+"\n");
        }
        System.out.println("====================================");
        for (int b = 0; b<i;b++){
            totalprice = totalprice + (quantity[b] * price[b]);
        }
        System.out.println("Total Price   : RM"+totalprice);
        double payment=0;

        do
        {
         System.out.println();
         System.out.println("Enter Your Payment: ");
         payment = menu.nextInt();

         if(totalprice > payment)
                 {
                   JOptionPane.showMessageDialog(null, "Your payment is
insufficient; please make a sufficient payment in accordance with the
payment schedule", "MTS Restaurant", JOptionPane.INFORMATION_MESSAGE);

         }
        }

        while(totalprice >= payment);

         JOptionPane.showMessageDialog(null, "Thank You for Buying Our
Meals! Here's Your Change: RM" +(payment-totalprice), "MTS Restaurant",
JOptionPane.INFORMATION_MESSAGE);
```

```
    }
    }while(keluar=false);
        System.out.println("====================================");
        System.out.println("|             THANK YOU              |");
        System.out.println("====================================");
    }
    public static void main(String[] args) {

      Login loginObject = new Login();
      loginObject.methodL();

      Food foodObject = new Food();
      foodObject.menu();
    }

}
```