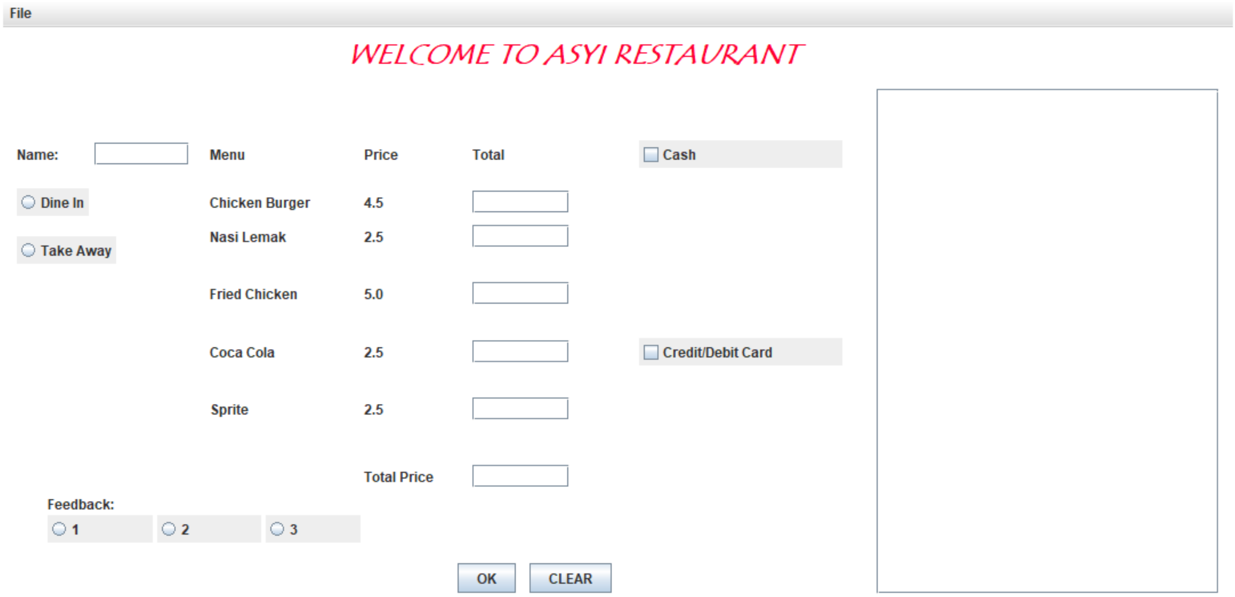
NAME : NUR ASYIDATUL BINTI ASINDI
NO MATRIC : BI19110052

USER MANUAL.



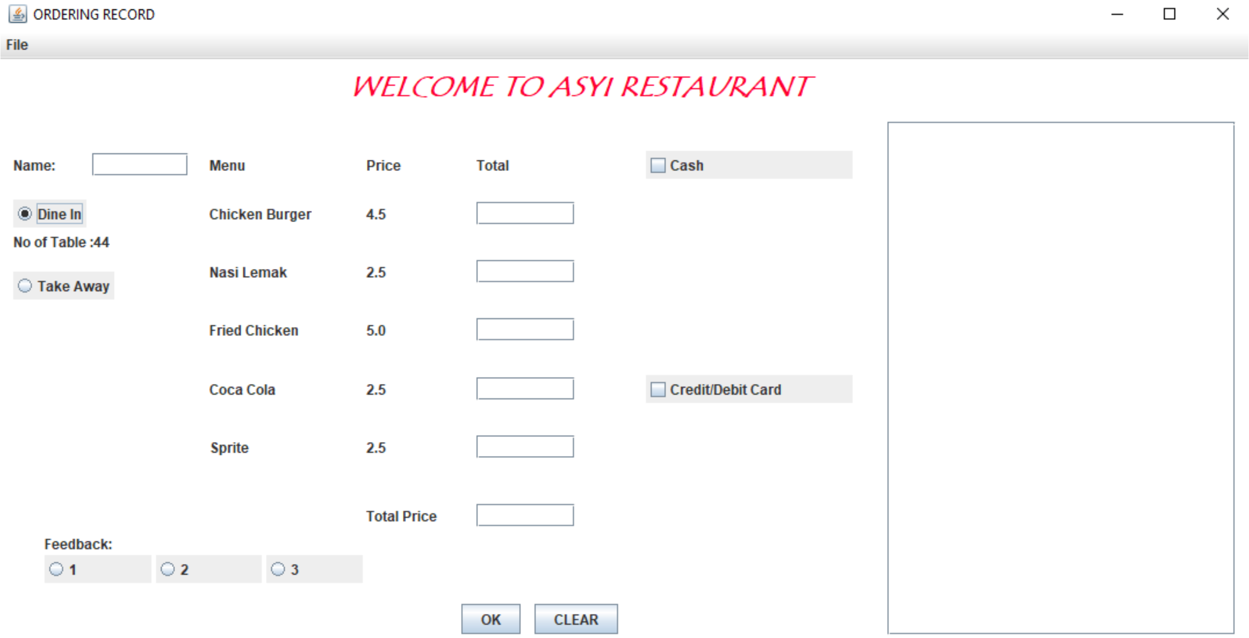
This system use in the restaurant to make the ordering record for each customer.

First step.

The user can enter the name of the customer.

Second Step.

The user can choose to dine in or take away depending on what the customer wants, and the turn or no of the table will show automatically.

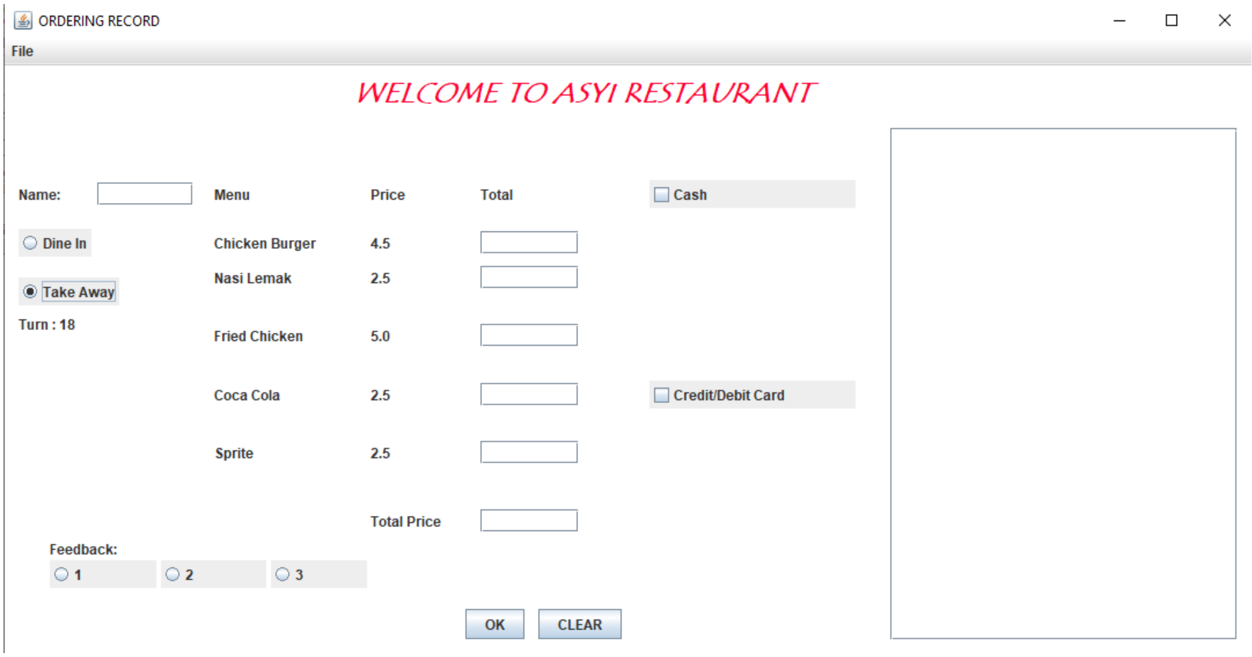


● Dine In
No of Table :44
○ Take Away

Menu	Price	Total
Chicken Burger	4.5	
Nasi Lemak	2.5	
Fried Chicken	5.0	
Coca Cola	2.5	
Sprite	2.5	
	Total Price	

□ Cash

□ Credit/Debit Card



○ Dine In
● Take Away
Turn : 18

Menu	Price	Total
Chicken Burger	4.5	
Nasi Lemak	2.5	
Fried Chicken	5.0	
Coca Cola	2.5	
Sprite	2.5	
	Total Price	

□ Cash

□ Credit/Debit Card

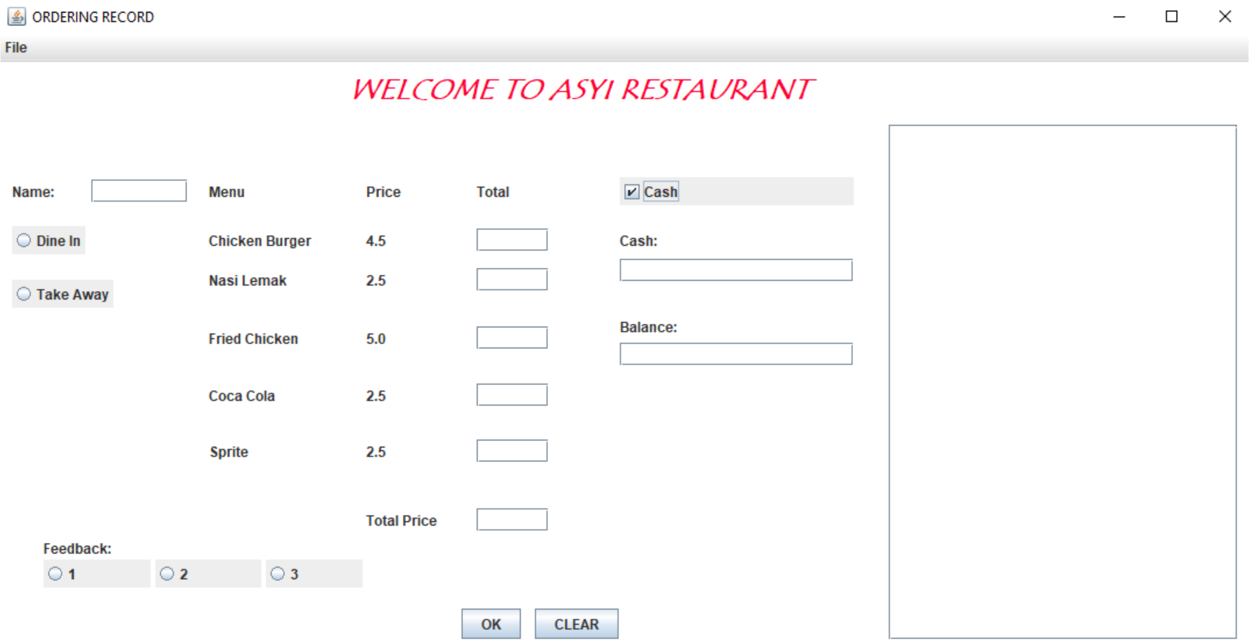
Third Step.

The user can fill the total for each food and drink that the customer wants. After fill all the total, the user must press “Enter” on the keyboard in the text field to get all the total price for the food and drink that had been ordered.

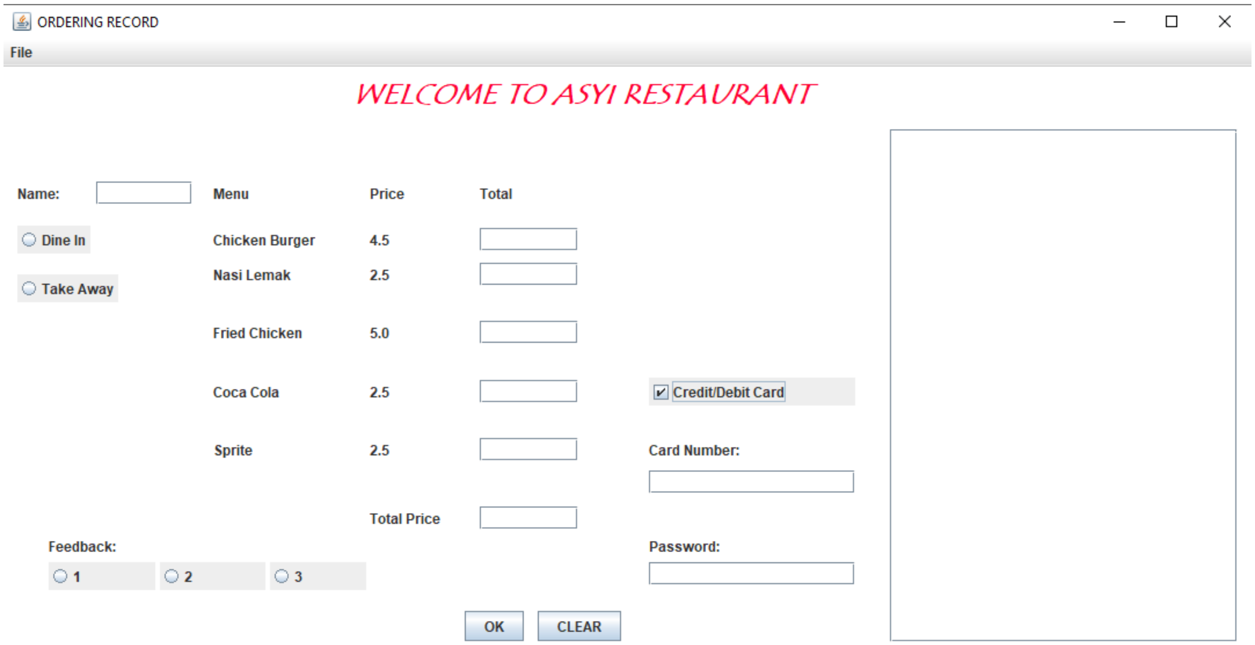
Fourth step.

After knowing all the total, the user can choose the type of pay that customers want either cash or card credit/card debit. If the customer chooses “Cash”, the text field for the user enters the amount of cash that the customer gives must fill and the user must press “Enter” in the text field to get the balance of the cash.The system will give a warning if the amount of cash less than the total price of the food and drink and the payment cannot be complete.

If the user chooses “Credit/Debit Card ” the text field for the card number, and password must fill by the customer. After entering the number of the credit/debit card, user need to press “Enter” on the keyboard to check the validation of the card. Only if the number card is valid, customer needs to enter the password and user need to press ”Enter” on the keyboard to complete the payment by online. If the password that been entered more or less than 6 characters, the system will show a warning and the payment cannot be complete. Make sure the password has 6 characters.



Menu	Price
Chicken Burger	4.5
Nasi Lemak	2.5
Fried Chicken	5.0
Coca Cola	2.5
Sprite	2.5



WELCOME TO ASYI RESTAURANT

Menu	Price	Total
Chicken Burger	4.5	
Nasi Lemak	2.5	
Fried Chicken	5.0	
Coca Cola	2.5	
Sprite	2.5	
	Total Price	

☑ Credit/Debit Card

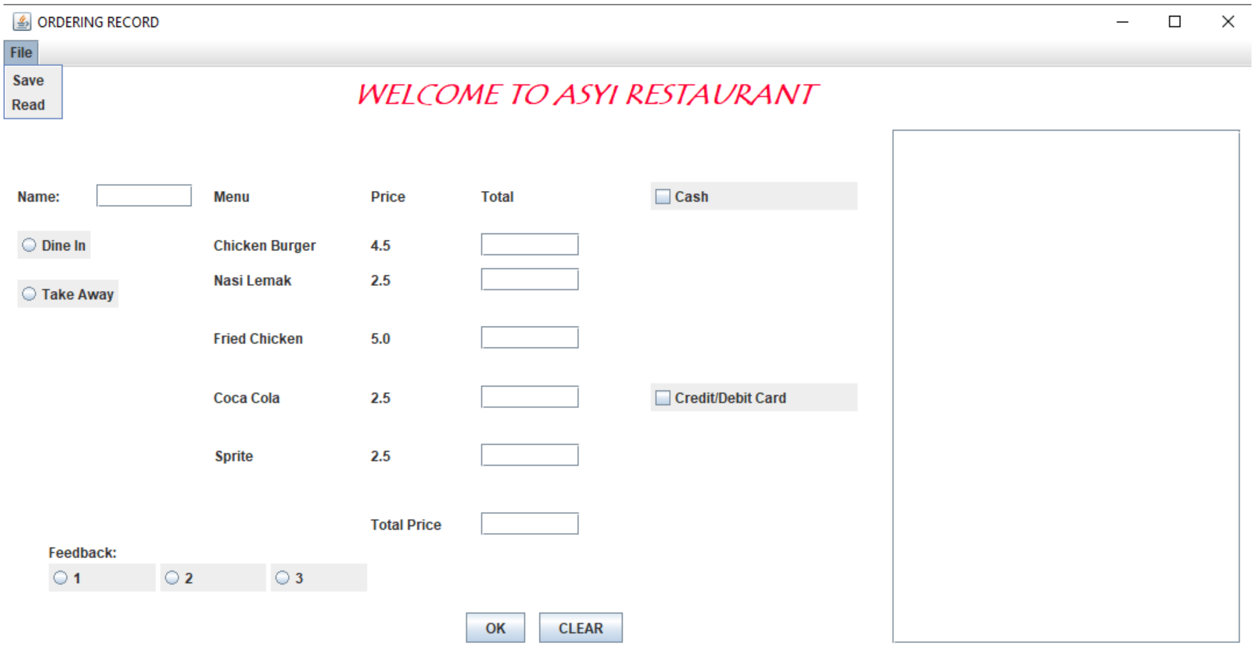
Fifth Step.

Then, the user can ask the customer to give feedback based on number which 1, 2, or 3 based on service that the user gives to the customer.

Sixth Step.

To get all the detail of the order, the user can click “OK” at the system to display all the info in the text area so it will be easy for both of user and the customer to look at all the info. If the user wants to make a new order for the other customer, the user must click “CLEAR” where it will clear all the info from previous customer.

The user can click “File” and choose “Save” and “load ”. If the user chooses “Save ”, it will save all the details of the order for each customer that already display in the text area to a text file. If the user chooses ”load”, it will display all the data from a text file which contains the details of ordering for all customer and display into the text area. Users can easily read and check all the details of their sales.



JAVA CODE.

```
import java.io.BufferedReader;
import java.io.BufferedWriter;
import java.io.File;
import java.io.FileWriter;
import java.io.PrintWriter;
import java.util.Random;
import java.util.Scanner;
import javax.swing.ButtonGroup;
import javax.swing.JOptionPane;

/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */



/**
 *
 * @author admin
 */
class GetName{
    String name;
  String getName(){
   name="Name:";
   return name;
   }
```

```
}

//class2
class GetPaymentMethod{
   String method1;
   String method2;
  // protected int a;

    String payment1(){
      method1=("Cash");
     return method1;
    }
     String payment2(){
      method2=("Credit/Debit Card");
     return method2;
    }

}
//class3
class TypeOfOrder{
   String order1;
   String order2;

    String typeoforder1(){
      order1=("Dine In");
     return order1;
    }
     String typeoforder2(){
      order1=("Take Away");
     return order1;
    }

    int NoTable(){
      Random t =new Random();
      int a=t.nextInt(50);
      return a;
    }
      int NoOfTurn(){
      Random y =new Random();
      int b=y.nextInt(100);
      return b;
    }

}
//class4 interface
interface Feedback{

   public String comment1();
   public String comment2();
   public String comment3();
}
//implementing
class comment implements Feedback {
   String  Comment;


   public String comment1(){
      Comment=("Bad");
      return Comment;
     }
    public String comment2(){

      Comment=("Good");
      return Comment;
     }
    public String comment3(){

      Comment=("Very Good");
      return Comment;
     }

}

abstract class Name{//abstarction

  double priceBurger;
  double priceNasiLemak;
  double priceChicken;
  double priceCola;
  double priceSprite;
  double totalPrice;

  abstract void setFoodPrice(double priceBurger , double priceNasiLemak , double priceChicken );
  abstract void setDrinkPrice( double priceCola, double priceSprite);
  abstract void cardValidateMember(String input);
```

```
}

//class5

class NameOrder extends Name{


  void setFoodPrice(double priceBurger , double priceNasiLemak , double priceChicken){

    this.priceBurger=priceBurger;

    this.priceNasiLemak=priceNasiLemak;

    this.priceChicken=priceChicken;

  }

  void setDrinkPrice(double priceCola, double priceSprite){

    this.priceCola=priceCola;

    this.priceSprite=priceSprite;

  }

  double getpriceBurger(){

  return priceBurger;

  }

  double getpriceNasiLemak(){

  return priceNasiLemak;

  }

  double getpriceChicken(){

  return priceChicken;

  }

  double getpriceCola(){

  return priceCola;

  }

  double getpriceSprite(){

  return priceSprite;

  }
```

```
void cardValidateMember(String input){
int[] creditCard = new int[input.length()];

for(int i=0; i< input.length() ;i++){
 creditCard[i]=Integer.parseInt(input.substring(i, i+1));
}
for(int i =creditCard.length-2;i>=0; i=i-2){
int tempValue=creditCard[i];
tempValue=tempValue*2;

if(tempValue>9){
  tempValue=tempValue%10+1;
}
creditCard[i] = tempValue;
}

int total=0;
for(int i=0;i<creditCard.length;i++){
total+=creditCard[i];
}
if(total %10==0){
String status = "Valid";
JOptionPane.showMessageDialog(null,status, "Status", JOptionPane.PLAIN_MESSAGE);

}
else{
String status ="Invalid";
JOptionPane.showMessageDialog(null,status, "Status", JOptionPane.PLAIN_MESSAGE);
```

```
    }
  }

}



public class Order extends javax.swing.JFrame  {//inheritancre

    GetName gn=new GetName();
    GetPaymentMethod pm=new GetPaymentMethod();
    TypeOfOrder to=new TypeOfOrder();
    comment cm=new comment();
    NameOrder no= new NameOrder();
    FileWriter file;
    BufferedReader reader;
    BufferedWriter write;



     private class TotalPrice{ //innerclass
        int a;
        int b;
        int c;
        int d;
        int e;
     double geta(){
       return a;
    }
      double getb(){
       return b;
```

```
   }
     double getc(){
      return c;
   }
     double getd(){
      return d;
   }
     double gete(){
      return e;
   }
       double getTotalPrice(){


       double totalprice=0;

totalprice=(no.getpriceBurger()*a)+(no.getpriceNasiLemak()*b)+(no.getpriceChicken()*c)+(no.getpriceC
ola()*d)+(no.getpriceSprite()*e);
       return totalprice;
       }
     }


   /** Creates new form Project2 */
   public Order() {
       initComponents();
   }


   /** This method is called from within the constructor to
    * initialize the form.
    * WARNING: Do NOT modify this code. The content of this method is
    * always regenerated by the Form Editor.
```

```
 */
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {

    no.setFoodPrice(4.50,2.50,5.00);
    no.setDrinkPrice(2.50, 2.50);

    jPanel1 = new javax.swing.JPanel();
    jLabel1 = new javax.swing.JLabel();
    jLabel2 = new javax.swing.JLabel();
    jTextField1 = new javax.swing.JTextField();
    jRadioButton1 = new javax.swing.JRadioButton();
    jLabel3 = new javax.swing.JLabel("No Of Table:" +" " + to.NoTable());
    jScrollPane2 = new javax.swing.JScrollPane();
    jTextArea1 = new javax.swing.JTextArea();
    jRadioButton2 = new javax.swing.JRadioButton();
    jLabel4 = new javax.swing.JLabel("Turn:" +" " + to.NoOfTurn());
    jLabel5 = new javax.swing.JLabel();
    jLabel6 = new javax.swing.JLabel();
    jLabel7 = new javax.swing.JLabel();
    jTextField2 = new javax.swing.JTextField();
    jTextField3 = new javax.swing.JTextField();
    jTextField4 = new javax.swing.JTextField();
    jTextField5 = new javax.swing.JTextField();
    jTextField6 = new javax.swing.JTextField();
    jLabel8 = new javax.swing.JLabel();
    jLabel9 = new javax.swing.JLabel(String.valueOf(no.getpriceBurger()));
    jLabel10 = new javax.swing.JLabel();
```

```
jLabel11 = new javax.swing.JLabel(String.valueOf(no.getpriceNasiLemak()));
jLabel12 = new javax.swing.JLabel();
jLabel13 = new javax.swing.JLabel(String.valueOf(no.getpriceChicken()));
jLabel14 = new javax.swing.JLabel();
jLabel15 = new javax.swing.JLabel(String.valueOf(no.getpriceCola()));
jLabel16 = new javax.swing.JLabel();
jLabel17 = new javax.swing.JLabel(String.valueOf(no.getpriceSprite()));
jCheckBox1 = new javax.swing.JCheckBox(pm.payment1());
jLabel3.setVisible(false);
jLabel18 = new javax.swing.JLabel();
jTextField7 = new javax.swing.JTextField();
jLabel19 = new javax.swing.JLabel();
jTextField8 = new javax.swing.JTextField();
jLabel20 = new javax.swing.JLabel();
jTextField9 = new javax.swing.JTextField();
jCheckBox2 = new javax.swing.JCheckBox(pm.payment2());
jLabel4.setVisible(false);
jLabel21 = new javax.swing.JLabel();
jTextField10 = new javax.swing.JTextField();
jLabel22 = new javax.swing.JLabel();
jButton1 = new javax.swing.JButton();
jButton2 = new javax.swing.JButton();
jMenuBar1 = new javax.swing.JMenuBar();
jMenu1 = new javax.swing.JMenu();
jMenuItem1 = new javax.swing.JMenuItem();
jMenuItem2 = new javax.swing.JMenuItem();
jPasswordField1 = new javax.swing.JPasswordField();
jRadioButton3 = new javax.swing.JRadioButton("1");
jRadioButton4 = new javax.swing.JRadioButton("2");
```

```
jRadioButton5 = new javax.swing.JRadioButton("3");
jLabel23 = new javax.swing.JLabel();
setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
setTitle("ORDERING RECORD");
jPanel1.setBackground(new java.awt.Color(255, 255, 255));
jLabel1.setFont(new java.awt.Font("Tempus Sans ITC", 3, 24)); // NOI18N
jLabel1.setForeground(new java.awt.Color(255, 0, 51));
jLabel1.setText("                                        WELCOME TO ASYI RESTAURANT");
jLabel2.setText(gn.getName());
jRadioButton1.setText(to.typeoforder1());
jRadioButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jRadioButton1ActionPerformed(evt);




    }
});
jTextArea1.setColumns(20);
jTextArea1.setRows(5);
jScrollPane2.setViewportView(jTextArea1);

jRadioButton2.setText(to.typeoforder2());
jRadioButton2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jRadioButton2ActionPerformed(evt);
```

```
      }
     });
ButtonGroup bt=new ButtonGroup();
bt.add(jRadioButton2);
bt.add(jRadioButton1);
ButtonGroup bt1=new ButtonGroup();
bt1.add(jRadioButton3);
bt1.add(jRadioButton4);
bt1.add(jRadioButton5);

jLabel5.setText("Menu");
 jLabel6.setText("Price");
 jLabel7.setText("Total");
 jLabel8.setText("Chicken Burger");
 jLabel10.setText("Nasi Lemak");
 jLabel12.setText("Fried Chicken");
 jLabel14.setText("Coca Cola");
 jLabel16.setText("Sprite");

  jCheckBox1.addActionListener(new java.awt.event.ActionListener() {
     public void actionPerformed(java.awt.event.ActionEvent evt) {
         jCheckBox1ActionPerformed(evt);
     }
 });

 jLabel18.setText("Total Price");
  jTextField7.addActionListener(new java.awt.event.ActionListener() {
     public void actionPerformed(java.awt.event.ActionEvent evt) {
         jTextField7ActionPerformed(evt);
```

```
    }
 });

jLabel19.setText("Cash:");
jLabel20.setText("Balance:");
jCheckBox2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jCheckBox2ActionPerformed(evt);
    }
});

jLabel21.setText("Card Number:");
jLabel22.setText("Password:");

jButton1.setText("OK");
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});

jButton2.setText("CLEAR");
jButton2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton2ActionPerformed(evt);
    }
});
```

```
  jTextField9.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jTextField9ActionPerformed(evt);
    }
 });

  jTextField10.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jTextField10ActionPerformed(evt);
    }
 });

jPasswordField1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jPasswordField1ActionPerformed(evt);
    }
 });



 jLabel23.setText("Feedback:");




    javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
 jPanel1.setLayout(jPanel1Layout);
 jPanel1Layout.setHorizontalGroup(
    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel1Layout.createSequentialGroup()
        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
          .addGroup(jPanel1Layout.createSequentialGroup()
            .addContainerGap()
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADIN
G)
              .addGroup(jPanel1Layout.createSequentialGroup()
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LE
ADING)
                  .addGroup(jPanel1Layout.createSequentialGroup()
                    .addGap(27, 27, 27)
                    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignmen
t.LEADING)
                      .addComponent(jLabel23)
                      .addGroup(jPanel1Layout.createSequentialGroup()
                        .addComponent(jRadioButton3, javax.swing.GroupLayout.PREFERRED_SIZE,
92, javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATE
D)
                        .addComponent(jRadioButton4, javax.swing.GroupLayout.PREFERRED_SIZE,
91, javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATE
D)
                        .addComponent(jRadioButton5, javax.swing.GroupLayout.PREFERRED_SIZE,
83, javax.swing.GroupLayout.PREFERRED_SIZE))))
                  .addGroup(jPanel1Layout.createSequentialGroup()
                    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignmen
t.LEADING)
                      .addComponent(jRadioButton1)
                      .addComponent(jLabel4)
                      .addGroup(jPanel1Layout.createSequentialGroup()
                        .addComponent(jLabel2)
                        .addGap(32, 32, 32)
                        .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE, 83,
javax.swing.GroupLayout.PREFERRED_SIZE)))
                    .addGap(18, 18, 18)
                    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignmen
t.LEADING)
                      .addComponent(jLabel5)
                      .addComponent(jLabel8)
                      .addComponent(jLabel10)
                      .addComponent(jLabel12)
                      .addComponent(jLabel14)
                      .addComponent(jLabel16))
                    .addGap(47, 47, 47)
                    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignmen
t.LEADING)
                      .addComponent(jLabel17)
                      .addComponent(jLabel15)
                      .addComponent(jLabel13)
                      .addComponent(jLabel11)
                      .addComponent(jLabel9)
                      .addComponent(jLabel6)
                      .addComponent(jLabel18)))
                  .addComponent(jRadioButton2))
                .addGap(34, 34, 34)
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TR
AILING)
                  .addGroup(javax.swing.GroupLayout.Alignment.LEADING,
jPanel1Layout.createSequentialGroup()
                    .addComponent(jLabel7)
                    .addGap(0, 0, Short.MAX_VALUE))
                  .addComponent(jTextField6, javax.swing.GroupLayout.Alignment.LEADING)
```

```
                    .addComponent(jTextField7, javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(jTextField2, javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(jTextField4)
                    .addComponent(jTextField5)
                    .addComponent(jTextField3))
                  .addGap(61, 61, 61)
                  .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TR
AILING)
                    .addComponent(jCheckBox1, javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                    .addGroup(javax.swing.GroupLayout.Alignment.LEADING,
jPanel1Layout.createSequentialGroup()
                      .addComponent(jLabel19, javax.swing.GroupLayout.PREFERRED_SIZE, 167,
javax.swing.GroupLayout.PREFERRED_SIZE)
                      .addGap(0, 0, Short.MAX_VALUE))
                    .addComponent(jTextField8, javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(jLabel20, javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                    .addComponent(jTextField9, javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(jCheckBox2, javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                    .addComponent(jLabel21, javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                    .addComponent(jTextField10, javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(jLabel22, javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                    .addComponent(jPasswordField1)))
                .addGroup(jPanel1Layout.createSequentialGroup()
                  .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LE
ADING)
                    .addComponent(jLabel3)
                    .addGroup(jPanel1Layout.createSequentialGroup()
                                        .addGap(386, 386, 386)
                                        .addComponent(jButton1)
                                        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                                        .addComponent(jButton2)))
                                .addGap(0, 0, Short.MAX_VALUE)))
                        .addGap(18, 18, 18))
                    .addComponent(jLabel1, javax.swing.GroupLayout.DEFAULT_SIZE, 753, Short.MAX_VALUE))
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jScrollPane2, javax.swing.GroupLayout.PREFERRED_SIZE, 300, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap())
        );
        jPanel1Layout.setVerticalGroup(
            jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 48, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
                    .addGroup(jPanel1Layout.createSequentialGroup()
                        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                            .addComponent(jLabel2)
                            .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                            .addComponent(jLabel5)
                            .addComponent(jLabel6)
                            .addComponent(jLabel7)
                            .addComponent(jCheckBox1))
                        .addGap(18, 18, 18)
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
              .addComponent(jRadioButton1)
              .addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
              .addComponent(jLabel8)
              .addComponent(jLabel9)
              .addComponent(jLabel19))
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
              .addGroup(jPanel1Layout.createSequentialGroup()
                .addComponent(jLabel3)
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                  .addGroup(jPanel1Layout.createSequentialGroup()
                    .addGap(18, 18, 18)
                    .addComponent(jRadioButton2))
                  .addGroup(jPanel1Layout.createSequentialGroup()
                    .addGap(8, 8, 8)
                    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                      .addComponent(jTextField3, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                      .addComponent(jLabel10)
                      .addComponent(jLabel11))))
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                  .addGroup(jPanel1Layout.createSequentialGroup()
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                    .addComponent(jLabel4))
                  .addGroup(jPanel1Layout.createSequentialGroup()
                    .addGap(16, 16, 16)
                    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                      .addComponent(jTextField4, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                      .addComponent(jLabel12)
                      .addComponent(jLabel13))))
                .addGap(29, 29, 29)
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                  .addComponent(jTextField5, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                  .addComponent(jLabel14)
                  .addComponent(jLabel15)
                  .addComponent(jCheckBox2))
                .addGap(28, 28, 28)
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                  .addComponent(jTextField6, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                  .addComponent(jLabel16)
                  .addComponent(jLabel17)
                  .addComponent(jLabel21)))
              .addGroup(jPanel1Layout.createSequentialGroup()
                .addComponent(jTextField8, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(30, 30, 30)
                .addComponent(jLabel20)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jTextField9, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
```

```
            .addGap(8, 8, 8)
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADIN
G)
              .addGroup(jPanel1Layout.createSequentialGroup()
                .addGap(31, 31, 31)
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BA
SELINE)
                  .addComponent(jLabel18)
                  .addComponent(jTextField7, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
              .addComponent(jTextField10, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELI
NE)
              .addComponent(jLabel22)
              .addComponent(jLabel23))
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADIN
G)
              .addGroup(jPanel1Layout.createSequentialGroup()
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LE
ADING)
                  .addComponent(jPasswordField1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                  .addComponent(jRadioButton4)
                  .addComponent(jRadioButton5))
                .addGap(18, 18, 18)
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BA
SELINE)
                  .addComponent(jButton2)
                  .addComponent(jButton1)))
```

```
                    .addComponent(jRadioButton3))
                  .addGap(1, 1, 1))
                .addComponent(jScrollPane2, javax.swing.GroupLayout.PREFERRED_SIZE, 442,
javax.swing.GroupLayout.PREFERRED_SIZE))
              .addGap(13, 13, 13))
        );

        jMenu1.setText("File");

        jMenuItem1.setText("Save");
        jMenuItem1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jMenuItem1ActionPerformed(evt);
            }
        });
        jMenu1.add(jMenuItem1);

        jMenuItem2.setText("Read");
        jMenuItem2.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jMenuItem2ActionPerformed(evt);
            }
        });
        jMenu1.add(jMenuItem2);
        jMenuBar1.add(jMenu1);
        setJMenuBar(jMenuBar1);

        javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
        getContentPane().setLayout(layout);
        layout.setHorizontalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jPanel1, javax.swing.GroupLayout.Alignment.TRAILING, 
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        );
        layout.setVerticalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE, 
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        );


        jLabel19.setVisible(false);
        jLabel20.setVisible(false);
        jLabel21.setVisible(false);
        jLabel22.setVisible(false);

        jTextField8.setVisible(false);
        jTextField9.setVisible(false);
        jTextField10.setVisible(false);
        jPasswordField1.setVisible(false);
        pack();
    }// </editor-fold>


    //read from file
    private void jMenuItem2ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
         try{
```

```
        File a2=new File("ASYI RESTAURANT.txt");
        Scanner sc=new Scanner(a2);


        while(sc.hasNextLine()){
            String txt=sc.nextLine();
           jTextArea1.append(txt + "\n");


        }
        sc.close();


       }
        catch(Exception a2){
           JOptionPane.showMessageDialog(null,a2+"Error");
        }
      }






   //save to file
   private void jMenuItem1ActionPerformed(java.awt.event.ActionEvent evt) {
       // TODO add your handling code here:
       if(jTextField1.getText().trim().isEmpty() ||jTextField2.getText().trim().isEmpty()||
jTextField3.getText().trim().isEmpty()||jTextField4.getText().trim().isEmpty()||
jTextField5.getText().trim().isEmpty()||jTextField6.getText().trim().isEmpty()||(!jRadioButton1.isSelecte
d() && !jRadioButton2.isSelected())||(!jCheckBox1.isSelected() && !jCheckBox2.isSelected())

      || jTextField7.getText().trim().isEmpty()||((jTextField8.getText().trim().isEmpty() ||
jTextField9.getText().trim().isEmpty())&& (jTextField10.getText().trim().isEmpty() ||
jPasswordField1.getText().trim().isEmpty()))||(!jRadioButton3.isSelected()
&& !jRadioButton4.isSelected() && !jRadioButton5.isSelected())){
    JOptionPane.showMessageDialog(null,"Enter all the info", "Warning" ,
JOptionPane.PLAIN_MESSAGE);

    }

    else{

     File fl=new File("ASYI RESTAURANT.txt");

        FileWriter fr = null;

              BufferedWriter br = null;

              PrintWriter pr = null;


   String input = jTextArea1.getText();


   //exception implementation

              try {

                     // to append to file, you need to initialize FileWriter using below constructor

                     fr = new FileWriter(fl, true);

                     br = new BufferedWriter(fr);

                     pr = new PrintWriter(br);

                     pr.println(input);

              } catch ( Exception f1 ) {

     jTextArea1.setText(evt.toString());

              } finally {

                     try {

                            pr.close();

                            br.close();

                            fr.close();

                 JOptionPane.showMessageDialog(null,"File Written Succesfully!");

                     } catch (Exception f1) {

                             jTextArea1.setText(evt.toString());

                     }
```

```
                         }


    }

}

//dine in

private void jRadioButton1ActionPerformed(java.awt.event.ActionEvent evt) {

    // TODO add your handling code here:

    jLabel4.setVisible(false);

    jLabel3.setVisible(true);

}

//take away

private void jRadioButton2ActionPerformed(java.awt.event.ActionEvent evt) {

    // TODO add your handling code here:

    jLabel4.setVisible(true);

    jLabel3.setVisible(false);

}


//calculate total price

TotalPrice tp=new TotalPrice();

private void jTextField7ActionPerformed(java.awt.event.ActionEvent evt) {

    // TODO add your handling code here:


     try{ //exceptionhandling

      int a1=Integer.parseInt(jTextField2.getText());

      tp.a=a1;

      int b1=Integer.parseInt(jTextField3.getText());

      tp.b=b1;

      int c1=Integer.parseInt(jTextField4.getText());

      tp.c=c1;
```

```
        int d1=Integer.parseInt(jTextField5.getText());

        tp.d=d1;

        int e1=Integer.parseInt(jTextField6.getText());

        tp.e=e1;

        jTextField7.setText(String.valueOf(tp.getTotalPrice()));

        }

       catch(NumberFormatException tp){

            JOptionPane.showMessageDialog(null,"You have entered invalid input", "Warning",
JOptionPane.PLAIN_MESSAGE);

            }





    }




    //cash

    private void jCheckBox1ActionPerformed(java.awt.event.ActionEvent evt) {

       // TODO add your handling code here:

       jCheckBox2.setVisible(false);

       jLabel19.setVisible(true);

       jLabel20.setVisible(true);

       jTextField8.setVisible(true);

       jTextField9.setVisible(true);

    }


    //card

    private void jCheckBox2ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
         jCheckBox1.setVisible(false);
         jLabel21.setVisible(true);
         jLabel22.setVisible(true);
         jTextField10.setVisible(true);
        jPasswordField1.setVisible(true);




    }
    // display output
    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
         if(jTextField1.getText().trim().isEmpty() ||jTextField2.getText().trim().isEmpty()||
jTextField3.getText().trim().isEmpty()||jTextField4.getText().trim().isEmpty()||
jTextField5.getText().trim().isEmpty()||jTextField6.getText().trim().isEmpty()||(!jRadioButton1.isSelecte
d() && !jRadioButton2.isSelected())||(!jCheckBox1.isSelected() && !jCheckBox2.isSelected())
          || jTextField7.getText().trim().isEmpty()||((jTextField8.getText().trim().isEmpty() ||
jTextField9.getText().trim().isEmpty())&& (jTextField10.getText().trim().isEmpty() ||
jPasswordField1.getText().trim().isEmpty()))||(!jRadioButton3.isSelected()
&& !jRadioButton4.isSelected() && !jRadioButton5.isSelected())){
         JOptionPane.showMessageDialog(null,"Enter all the info", "Warning" ,
JOptionPane.PLAIN_MESSAGE);
     }
     else{
         jTextArea1.append(jLabel1.getText()+"\n");
         jTextArea1.append(jLabel2.getText() + jTextField1.getText()+"\n");//display name

       //display dine in or take away
        if(jRadioButton1.isSelected()){
           jTextArea1.append(jRadioButton1.getText()+"\n");
```

```
      jTextArea1.append(jLabel3.getText()+"\n");
     }
     if(jRadioButton2.isSelected()){
       jTextArea1.append(jRadioButton2.getText()+"\n");
       jTextArea1.append(jLabel4.getText()+"\n");
     }
    //display order
       jTextArea1.append(jLabel5.getText() +"\t\t" + jLabel6.getText()  +"\t" + jLabel7.getText()+"\n");
       jTextArea1.append(jLabel8.getText() +"\t\t" + jLabel9.getText() +"\t" + jTextField2.getText()
+"\n");
       jTextArea1.append(jLabel10.getText()+"\t\t" + jLabel11.getText() +"\t" + jTextField3.getText()
+"\n");
       jTextArea1.append(jLabel12.getText()+"\t\t" + jLabel13.getText() +"\t" +  jTextField4.getText()
+"\n");
       jTextArea1.append(jLabel14.getText()+"\t\t" + jLabel15.getText() +"\t" +  jTextField5.getText()
+"\n");
       jTextArea1.append(jLabel16.getText()+"\t\t" + jLabel17.getText() +"\t" +  jTextField6.getText()
+"\n");
    //display total price
       jTextArea1.append(jLabel18.getText()+"\n");
       jTextArea1.append(jTextField7.getText()+"\n");
    //dislpay cash and debit card
     if(jCheckBox1.isSelected()){
       jTextArea1.append(jCheckBox1.getText()+"\n");
       jTextArea1.append(jLabel19.getText()+"\n" );
       jTextArea1.append(jTextField8.getText()+"\n");
       jTextArea1.append(jLabel20.getText()+"\n");
       jTextArea1.append(jTextField9.getText()+"\n");

     }
    if(jCheckBox2.isSelected()){
        jTextArea1.append(jCheckBox2.getText()+ "\n");
        jTextArea1.append(jLabel21.getText()+"\n");
        jTextArea1.append(jTextField10.getText()+"\n");
        jTextArea1.append(jLabel22.getText()+"\n");
        jTextArea1.append(jPasswordField1.getPassword()+"\n");


    }
        jTextArea1.append("Thank You.Please Come again.\n");
        jTextArea1.append("Feedback:\n");
        if(jRadioButton3.isSelected()){
        jTextArea1.append(cm.comment1());
        }
        if(jRadioButton4.isSelected()){
        jTextArea1.append(cm.comment2());
    }
        if(jRadioButton5.isSelected()){
        jTextArea1.append(cm.comment3());
    }
    }
}
//clear
private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
           ButtonGroup bt=new ButtonGroup();
           bt.add(jRadioButton2);
           bt.add(jRadioButton1);
           ButtonGroup bt1=new ButtonGroup();
           bt1.add(jRadioButton3);
```

```
     bt1.add(jRadioButton4);
     bt1.add(jRadioButton5);

jTextField1.setText("");
bt.clearSelection();
bt1.clearSelection();
jLabel3.setVisible(false);
jLabel3.setText("No of Table :" + String.valueOf(to.NoTable()));
jLabel4.setVisible(false);
jLabel4.setText("Turn : "+ String.valueOf(to.NoOfTurn()));
jTextField2.setText("");
jTextField3.setText("");
jTextField4.setText("");
jTextField5.setText("");
jTextField6.setText("");
jCheckBox1.setSelected(false);
jCheckBox1.setVisible(true);
jLabel19.setVisible(false);
jTextField8.setText("");
jLabel20.setVisible(false);
jTextField9.setText("");
jCheckBox2.setSelected(false);
jCheckBox2.setVisible(true);
jLabel21.setVisible(false);
jTextField10.setText("");
jLabel22.setVisible(false);
jPasswordField1.setText("");
jTextArea1.setText("");
jTextField7.setText("");
```

```
        jTextField8.setVisible(false);

        jTextField9.setVisible(false);

        jTextField10.setVisible(false);

        jPasswordField1.setVisible(false);

    }




    private void jTextField9ActionPerformed(java.awt.event.ActionEvent evt) {

        // TODO add your handling code here:

    try{

        if(Double.parseDouble(jTextField8.getText())>=Double.parseDouble(jTextField7.getText())){

        double balance=Double.parseDouble(jTextField8.getText())-
Double.parseDouble(jTextField7.getText());

        jTextField9.setText(String.valueOf(balance));

        }else{

        JOptionPane.showMessageDialog(null,"The cash is not enough!", "Warning",
JOptionPane.PLAIN_MESSAGE);

        }

     }

     catch(NumberFormatException jTextField9){

              JOptionPane.showMessageDialog(null,"You have entered invalid input", "Warning",
JOptionPane.PLAIN_MESSAGE);

              }


    }

     private void jTextField10ActionPerformed(java.awt.event.ActionEvent evt) {

        // TODO add your handling code here:

    try{

         no.cardValidateMember( jTextField10.getText());

     }
```

```
      catch(NumberFormatException jTextField10){

                JOptionPane.showMessageDialog(null,"You have entered invalid input", "Warning",
JOptionPane.PLAIN_MESSAGE);

                }

    }


     private void jPasswordField1ActionPerformed(java.awt.event.ActionEvent evt) {


     if(jPasswordField1.getPassword().length < 6 || jPasswordField1.getPassword().length > 6){

        JOptionPane.showMessageDialog(null,"Invalid Password", "Warning" ,
JOptionPane.PLAIN_MESSAGE);

      }


    else

      {

      JOptionPane.showMessageDialog(null,"Transaction is Success! ", "Status" ,
JOptionPane.PLAIN_MESSAGE);

      }



     }



    /**

     * @param args the command line arguments

     */

    public static void main(String args[]) {

       /* Set the Nimbus look and feel */

       //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">

       /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.
```

```
         * For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
         */
        try {
            for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
                if ("FlatLaf Light".equals(info.getName())) {
                    javax.swing.UIManager.setLookAndFeel(info.getClassName());
                    break;
                }
            }
        } catch (ClassNotFoundException ex) {
            java.util.logging.Logger.getLogger(Order.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);
        } catch (InstantiationException ex) {
            java.util.logging.Logger.getLogger(Order.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);
        } catch (IllegalAccessException ex) {
            java.util.logging.Logger.getLogger(Order.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {
            java.util.logging.Logger.getLogger(Order.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);
        }
        //</editor-fold>

        /* Create and display the form */
        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new Order().setVisible(true);
            }
```

```
    });
}

// Variables declaration - do not modify
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JCheckBox jCheckBox1;
private javax.swing.JCheckBox jCheckBox2;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel10;
private javax.swing.JLabel jLabel11;
private javax.swing.JLabel jLabel12;
private javax.swing.JLabel jLabel13;
private javax.swing.JLabel jLabel14;
private javax.swing.JLabel jLabel15;
private javax.swing.JLabel jLabel16;
private javax.swing.JLabel jLabel17;
private javax.swing.JLabel jLabel18;
private javax.swing.JLabel jLabel19;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel20;
private javax.swing.JLabel jLabel21;
private javax.swing.JLabel jLabel22;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
private javax.swing.JLabel jLabel7;
private javax.swing.JLabel jLabel8;
```

```
    private javax.swing.JLabel jLabel9;

    private javax.swing.JMenu jMenu1;

    private javax.swing.JMenuBar jMenuBar1;

    private javax.swing.JMenuItem jMenuItem1;

    private javax.swing.JMenuItem jMenuItem2;

    private javax.swing.JPanel jPanel1;

    private javax.swing.JRadioButton jRadioButton1;

    private javax.swing.JRadioButton jRadioButton2;

    private javax.swing.JScrollPane jScrollPane1;

    private javax.swing.JScrollPane jScrollPane2;

    private javax.swing.JTextArea jTextArea1;

    private javax.swing.JTextField jTextField1;

    private javax.swing.JTextField jTextField10;

    private javax.swing.JTextField jTextField2;

    private javax.swing.JTextField jTextField3;

    private javax.swing.JTextField jTextField4;

    private javax.swing.JTextField jTextField5;

    private javax.swing.JTextField jTextField6;

    private javax.swing.JTextField jTextField7;

    private javax.swing.JTextField jTextField8;

    private javax.swing.JTextField jTextField9;

    private javax.swing.JRadioButton jRadioButton3;

    private javax.swing.JRadioButton jRadioButton4;

    private javax.swing.JRadioButton jRadioButton5;

    private javax.swing.JLabel jLabel23;

     private javax.swing.JPasswordField jPasswordField1;

    // End of variables declaration


}
```

OBJECT ORIENTED IMPLEMENTATIONS.

There are 7 classes and one main class for this code.

1. Object and Clasess

In this project there are 7 classes which 1 is the main class where has an object to call the other classes in this code.

2. Abstraction

Data **abstraction** is the process of hiding certain details and showing only essential information to the user. Abstraction can be achieved with either **abstract classes.** In this project, the **class Name is an abstract class .** It has three abstract method which are abstract void setFoodPrice , abstract void setDrinkPrice and abstract void cardValidateMember . Class NameOrder extends the class Name.

3. Interface

In this code , the **Feedback** is **the interface** . The method declared the Feedback are default abstract. Feedbak have three method which are **public String comment1() , public String comment2(),public String comment3()**. **Class comment** is the class that implement the Feedback so it can be access by main class.

4. Inner Classes

The **main class** for this project is **public class Order** . In this main class there is an inner classes which is is a **private class TotalPrice** to calculate the total price for the food and drink that had been ordered.

5. Inheritance

In the main class , it extends the javax.swing.Jframe. It make main class to inherits all the public properties from all its ancestors such as setDefaultCloseOpeation and setTitle .

Read and Write Implementation .

In this project , there is 1 text file for read and write purpose which is ASYI RESTAURANT.txt.

1.Write implementation.

When the users click the “OK” button the system will display all the info at the text area for reference for the user to see all the order that customer want. After that , the users can click “Save” to save all the data into text file . This project use FileWriter , BufferedWriter and PrintWriter to write all the data into a text file.FileWriter () will write all the characters from the text area . BufferedWriter() provides efficient writing of single characters , array and strings and it used to make FileWriter() more efficient and easier use.PrintWriter() will enables to write formatted data where text and numbers are mix.Then,Println() will print all the details to a text file .

2.Read implementation.

In this project, the system can read all details of data in the file as input by click the “Read” and display it at the text area so it more easy to look all the order. In this project , it use a scanner to read all the data in the text file.