**Appendices**

**Coding of the system (Customer Loyalty Program)**

**1. Class Customer**

namespace AssignmentPetrol

{

public class Customer

{

private string name;

public string Name

{

get { return name; }

set { name = value; }

}

private string ic;

public string Ic

{

get { return ic; }

set { ic = value; }

}

private string address;

public string Address

{

get { return address; }

set { address = value; }

}

private string phone;

public string Phone

{

get { return phone; }

set { phone = value; }

}

private string idcardNo;

public string IdcardNo

{

get { return idcardNo; }

set { idcardNo = value; }

}

public Customer() // CONSTRUCTOR

{ }

private int Point;

public int Point1

{

get { return Point; }

set { Point = value; }

}

private Transaction TransactionforSale;//ATTRIBUTE

public Transaction TransactionforSale1

{

get { return TransactionforSale; }

set { TransactionforSale = value; }

}

public void customerReg(Transaction aTransaction)

{

TransactionforSale1 = aTransaction;

}

public int getCalculatetotalPriceforFuel()// METHOD TO CALL METHOD CalculateTotalPriceforFuel FROM CLASS TRANSACTION

{

return TransactionforSale1.CalculatetotalPriceforFuel();

}

public int getcalculatetotalPrice()//METHOD TO CALL METHOD calculatetotalprice FROM CLASS TRANSACTION

{

return TransactionforSale1.calculatetotalPrice();

}

public int getCalculateconvertToPoint()////METHOD TO CALL METHOD CalculateconvertToPoint FROM CLASS TRANSACTION

{

return TransactionforSale1.CalculateconvertToPoint();

}

public int calculateCurrentPoint()// METHOD TO CALCULATE CURRENT TOTAL POINT

{

return Point1 = Point1 + TransactionforSale1.CalculateconvertToPoint();//

}

}

}

**2. Class Transaction**

namespace AssignmentPetrol

{

public class Transaction

{

private int totalitem;

public int Totalitem

{

get { return totalitem; }

set { totalitem = value; }

}

private int totallitrefuel;

public int Totallitrefuel

{

get { return totallitrefuel; }

set { totallitrefuel = value; }

}

private int totalPriceTransaction;

public int TotalPriceTransaction

{

get { return totalPriceTransaction; }

set { totalPriceTransaction = value; }

}

public Transaction()

{}

public Transaction(int i, int f)

{

totalitem = i;

totallitrefuel = f;

}

public int CalculatetotalPriceforFuel() //METHOD TO CALCULATE TOTAL PRICE FOR FUEL

{

int totalPriceFuel;

totalPriceFuel = totallitrefuel \* 3;

return totalPriceFuel;

}

public int calculatetotalPrice()//METHOD TO CALCULATE TOTAL PRICE FOR ITEM AND FUEL

{

return totalPriceTransaction = totalitem +(totallitrefuel \* 3);

}

public int CalculateconvertToPoint()

{

int convertToPoint;

convertToPoint = (totallitrefuel \* 2)+(totalitem \* 2);

return convertToPoint;

}

}

}

**3. Main Menu form**

namespace AssignmentPetrol

{

public partial class Main\_Menu : Form

{

public Main\_Menu()

{

InitializeComponent();

}

private void btnRegisterCust\_Click(object sender, EventArgs e)

{

this.Hide();

Register RegisterCustomer = new Register();

RegisterCustomer.ShowDialog();

this.Close();

}

private void btnBuyItem\_Click(object sender, EventArgs e)

{

this.Hide();

Buy\_Item Sales = new Buy\_Item();

Sales.ShowDialog();

this.Close();

}

private void btnRedeemPoint\_Click(object sender, EventArgs e)

{

this.Hide();

Redeem\_Point redeemPoint = new Redeem\_Point();

redeemPoint.ShowDialog();

this.Close();

}

private void btnRedemPoint\_Click(object sender, EventArgs e)

{

this.Hide();

view\_all\_Report report = new view\_all\_Report();

report.ShowDialog();

this.Close();

}

private void btnExit\_Click(object sender, EventArgs e)

{

Application.Exit();

}

}

}

**4. Register form**

namespace AssignmentPetrol

{

public partial class Register : Form

{

public Register()

{

InitializeComponent();

}

string filepath = @"C:\Users\Athirah\Desktop\Assignment\1 HND LIFE\H3\OOP\CustomerInformation.txt";

Customer aCustomer; //instantiate object named objCustomer of class Customer

private void btnRegisterCustomer\_Click(object sender, EventArgs e)

{

aCustomer = new Customer();

aCustomer.Name = txtName.Text;

aCustomer.Ic = txtICNo.Text;

aCustomer.Address = txtAddress.Text;

aCustomer.Phone = txtPhoneNo.Text;

aCustomer.IdcardNo = txtIDCardNo.Text;

aCustomer.Point1 = int.Parse(txtPoint.Text);

if (aCustomer.Name == "-" || aCustomer.Ic == "-" || aCustomer.Address == "-" || aCustomer.Phone == "-" || aCustomer.IdcardNo == "-")

{

MessageBox.Show("Please complete the form");

}

else

{

SaveToFile(filepath); //save customer details in CustomerInformation.txt text file

MessageBox.Show("You has been Registered Successfully");

}

}

bool SaveToFile(string Filepath)

{

if (!File.Exists(filepath))

{

// Create a file to write to.

using (StreamWriter file = File.CreateText(filepath))

{

string Line = CustomerToLine(aCustomer);

file.WriteLine(Line);//write to file

}

}

else

// This text is always added, making the file longer over time

// if it is not deleted.

using (StreamWriter file = File.AppendText(filepath))

{

string Line = CustomerToLine(aCustomer);

file.WriteLine(Line);

}

//file.Close();

return true;

}

string CustomerToLine(Customer aCustomer)

{

//displayed customer's detail in text file

StringBuilder sb = new StringBuilder();

sb.Append(aCustomer.IdcardNo);

sb.Append('|');

sb.Append(aCustomer.Name);

sb.Append('|');

sb.Append(aCustomer.Ic);

sb.Append('|');

sb.Append(aCustomer.Address);

sb.Append('|');

sb.Append(aCustomer.Phone);

sb.Append('|');

sb.Append(aCustomer.Point1);

Debug.WriteLine(sb.ToString());

return sb.ToString();

}

private void btnMainMenu\_Click(object sender, EventArgs e)

{

//main menu form displayed

this.Hide();

Main\_Menu mainMenu = new Main\_Menu();

mainMenu.ShowDialog();

this.Close();

}

private void btnExit\_Click(object sender, EventArgs e)

{

Application.Exit();

}

private void btnReset\_Click(object sender, EventArgs e)

{

//form cleared

Controls.Clear();

InitializeComponent();

}

}

}

**5. Buy item form**

namespace AssignmentPetrol

{

public partial class Buy\_Item : Form

{

Customer theCust = new Customer();

Transaction objTransaction = new Transaction();

public Buy\_Item()

{

InitializeComponent();

}

private void btnCalculate\_Click(object sender, EventArgs e)

{

Customer theCust = new Customer();//Instantiate object named objCustomer of class Customer

Transaction objTransaction = new Transaction();//Instantiate object named objTransaction of class Transaction

theCust.customerReg(objTransaction);//ESTABLISH CONNECTION BETWEEN CLASS CUSTOMER AND TRANSACTOIN

objTransaction.Totallitrefuel = int.Parse(txtTotalLitre.Text); //read from text box

objTransaction.Totalitem = int.Parse(txtTotalPriceItems.Text);

int totalPriceforFuel = theCust.getCalculatetotalPriceforFuel(); //CALL METHOD IN CLASS CUSTOMER TO CALCULATE TOTAL PRICE FOR FUEL

int totalTransaction = theCust.getcalculatetotalPrice();////CALL METHOD IN CLASS CUSTOMER TO CALCULATE TOTAL TRANSACTION

txtTotalPrice.Text = Convert.ToString(theCust.getcalculatetotalPrice()); //DISPLAY ANSWER IN TEXT BOX

Program.item = int.Parse(txtTotalPriceItems.Text);

Program.fuel = int.Parse(txtTotalLitre.Text);

Program.pricelitre = totalPriceforFuel;

Program.totalTransaction = totalTransaction;

}

private void btnCalBalance\_Click(object sender, EventArgs e)

{

Program.Name = txtName.Text;

Program.IDCard = txtIDCardNo.Text;

Program.IC = txtICNo.Text;

Program.payment = int.Parse(txtPayment.Text);

Customer theCust = new Customer(); //Instantiate object named objCustomer of class Customer

Transaction objTransaction = new Transaction(); //Instantiate object named objTransaction of class Transaction

theCust.customerReg(objTransaction);

int payment = int.Parse(txtPayment.Text);

int totalPrice = int.Parse(txtTotalPrice.Text);

if (payment >= totalPrice)

{

int calculateBalance = payment - totalPrice;//calculate balance

txtBalance.Text = Convert.ToString(calculateBalance); //display balance in text box

Program.balance = int.Parse(txtBalance.Text);

}

else

{

MessageBox.Show("Payment should be more than total price");

}

}

private void btnSearch\_Click(object sender, EventArgs e)

{

string filepath = @"C:\Users\Athirah\Desktop\Assignment\1 HND LIFE\H3\OOP\CustomerInformation.txt"; //FILE PATH FOR TEXT FILE TO SEARCH CUSTOMER INFORMATION

string search = txtIDCardNo.Text;

string line;

if (System.IO.File.Exists(filepath) == true)

{

using (StreamReader reader = new StreamReader(filepath)) //READ TEXT FILE

{

while (!reader.EndOfStream)

{

line = reader.ReadLine();

Customer objCustomer; // Instantiate object named objCustomer of class Customer

ParseCustomer(line, out objCustomer);

if (search == objCustomer.IdcardNo)

{

txtName.Text = objCustomer.Name;

txtICNo.Text = objCustomer.Ic;

txtAddress.Text = objCustomer.Address;

txtPhoneNo.Text = objCustomer.Phone;

txtPoint.Text = Convert.ToString(objCustomer.Point1);

theCust = objCustomer;

}

}

}

}

else

MessageBox.Show("File" + filepath + "doesn't exist");

}

bool ParseCustomer(string Text, out Customer objCustomer)//utk splitkan data by bar

{

objCustomer = new Customer(); //CREATE OBJECT CUSTOMER

string[] arr = Text.Split('|');

if (arr.Length != 6)

return false;

objCustomer.IdcardNo = arr[0];

objCustomer.Name = arr[1];

objCustomer.Ic = arr[2];

objCustomer.Address = arr[3];

objCustomer.Phone = arr[4];

objCustomer.Point1 = int.Parse(arr[5]);

return true;

}

private void btnCollectPoint\_Click\_1(object sender, EventArgs e)

{

if (txtTotalPrice.Text == "-")

{

MessageBox.Show("Please complete the transaction first");

}

else

{

Customer theCust = new Customer(); //Instantiate object named objCustomer of class Customer

Transaction objTransaction = new Transaction();//Instantiate object named objTransaction of class Transaction

theCust.customerReg(objTransaction);

Program.CollectedPoint = theCust.getCalculateconvertToPoint(); //CALL METHOD IN CLASS CUSTOMER TO CALCULATE TOTAL POINT

objTransaction.Totallitrefuel = int.Parse(txtTotalLitre.Text);

objTransaction.Totalitem = int.Parse(txtTotalPriceItems.Text);

int totalPoint = theCust.getCalculateconvertToPoint();

txtCollectedPoint.Text = Convert.ToString(totalPoint

}

}

private void btnViewReceipt\_Click(object sender, EventArgs e)

{

if (txtIDCardNo.Text == "-")

{

MessageBox.Show("Please complete the transaction first");

}

else

{

string filepath2 = @"C:\Users\Athirah\Desktop\Assignment\1 HND LIFE\H3\OOP\CustomerTransaction.txt"; //FILE PATH FOR CUSTOMER TRANSACTION TEXT FILE

int payment = int.Parse(txtPayment.Text);

int totalPrice = int.Parse(txtTotalPrice.Text);

theCust = new Customer();

theCust.customerReg(objTransaction);

theCust.Name = txtName.Text;

theCust.Ic = txtICNo.Text;

theCust.IdcardNo = txtIDCardNo.Text;

objTransaction.Totallitrefuel = int.Parse(txtTotalLitre.Text);

objTransaction.Totalitem = int.Parse(txtTotalPriceItems.Text);

payment = int.Parse(txtPayment.Text);

objTransaction.TotalPriceTransaction = int.Parse(txtTotalPrice.Text);

int balance = int.Parse(txtBalance.Text);

SaveToFile2(filepath2); //save customer transaction in CustomerTransaction.txt text file

this.Hide();

Transaction\_Receipt receipt = new Transaction\_Receipt(); //open transaction receipt

receipt.ShowDialog();

this.Close();

}

}

bool SaveToFile2(string Filepath2)

{

string filepath2 = @"C:\Users\Athirah\Desktop\Assignment\1 HND LIFE\H3\OOP\CustomerTransaction.txt";

if (!File.Exists(filepath2))

{

// Create a file to write to.

using (StreamWriter file = File.CreateText(filepath2))

{

string Line = CustomerToLine(theCust);

file.WriteLine(Line);//write to file

}

}

else

// This text is always added, making the file longer over time

// if it is not deleted.

using (StreamWriter file = File.AppendText(filepath2))

{

string Line = CustomerToLine(theCust);

file.WriteLine(Line);

}

//file.Close();

return true;

}

string CustomerToLine(Customer theCust)

{

StringBuilder sb = new StringBuilder();

sb.Append(txtIDCardNo.Text);

sb.Append(" ");

sb.Append(txtName.Text);

sb.Append(" ");

sb.Append(txtICNo.Text);

sb.Append(" ");

sb.Append(int.Parse(txtTotalLitre.Text));

sb.Append(" ");

sb.Append(int.Parse(txtTotalPriceItems.Text));

sb.Append(" ");

sb.Append(int.Parse(txtTotalPrice.Text));

sb.Append(" ");

sb.Append(int.Parse(txtPayment.Text));

sb.Append(" ");

sb.Append(int.Parse(txtBalance.Text));

//Debug.WriteLine(sb.ToString());

return sb.ToString();

}

private void btnUpdate\_Click(object sender, EventArgs e)

{

theCust = new Customer();

Transaction objTransaction = new Transaction();

theCust.customerReg(objTransaction);

//theCust.Point1 = theCust.calculateCurrentPoint();

int currentPoint = (int.Parse(txtPoint.Text)) + (int.Parse(txtCollectedPoint.Text));

txtTotalPoint.Text = Convert.ToString(currentPoint);

string filepath = @"C:\Users\Athirah\Desktop\Assignment\1 HND LIFE\H3\OOP\CustomerInformation.txt";

theCust.Name = txtName.Text;

theCust.Ic = txtICNo.Text;

theCust.Address = txtAddress.Text;

theCust.Phone = txtPhoneNo.Text;

theCust.IdcardNo = txtIDCardNo.Text;

theCust.Point1 = int.Parse(txtTotalPoint.Text);

SaveToFile(filepath);

}

bool SaveToFile(string Filepath)

{

string filepath = @"C:\Users\Athirah\Desktop\Assignment\1 HND LIFE\H3\OOP\CustomerInformation.txt";

if (!File.Exists(filepath))

{

// Create a file to write to.

using (StreamWriter file = File.CreateText(filepath))

{

string Line = CustomerToLine2(theCust);

file.WriteLine(Line);//write to file

}

}

else

// This text is always added, making the file longer over time

// if it is not deleted.

using (StreamWriter file = File.AppendText(filepath))

{

string Line = CustomerToLine2(theCust);

file.WriteLine(Line);

}

//file.Close();

return true;

}

string CustomerToLine2(Customer objCustomer)

{

StringBuilder sb = new StringBuilder();

sb.Append(objCustomer.IdcardNo);

sb.Append('|');

sb.Append(objCustomer.Name);

sb.Append('|');

sb.Append(objCustomer.Ic);

sb.Append('|');

sb.Append(objCustomer.Address);

sb.Append('|');

sb.Append(objCustomer.Phone);

sb.Append('|');

sb.Append(objCustomer.Point1);

return sb.ToString();

}

private void btnMainMenu\_Click(object sender, EventArgs e)

{

this.Hide();

Main\_Menu mainMenu = new Main\_Menu();

mainMenu.ShowDialog();

this.Close();

}

private void btnExit\_Click(object sender, EventArgs e)

{

Application.Exit();

}

}

}

**6. Redeem point form**

namespace AssignmentPetrol

{

public partial class Redeem\_Point : Form

{

Customer objCustomer = new Customer(); //Instantiate object named objCustomer of class Customer

Transaction objTransaction = new Transaction(); //Instantiate transaction named objTransaction of class Transaction

public Redeem\_Point()

{

InitializeComponent();

}

private void btnSearch\_Click(object sender, EventArgs e)

{

string filepath = @"C:\Users\Athirah\Desktop\Assignment\1 HND LIFE\H3\OOP\CustomerInformation.txt"; //filepath for customer information text file

string search = txtIDCardNo.Text;

string line;

if (System.IO.File.Exists(filepath) == true)

{

using (StreamReader reader = new StreamReader(filepath))

{

while (!reader.EndOfStream)

{

line = reader.ReadLine();

Customer objCustomer; //Instantiate object named objCustomer of class Customer

ParseCustomer(line, out objCustomer);

if (search == objCustomer.IdcardNo)

{

txtName.Text = objCustomer.Name;

txtICNo.Text = objCustomer.Ic;

txtAddress.Text = objCustomer.Address;

txtPhoneNo.Text = objCustomer.Phone;

txtCurrentPoint.Text = Convert.ToString(objCustomer.Point1);

}

}

}

}

else

MessageBox.Show("File" + filepath + "doesn't exist");

}

bool ParseCustomer(string Text, out Customer objCustomer)//utk splitkan data by bar

{

objCustomer = new Customer(); //Instantiate object named objCustomer of class Customer

string[] arr = Text.Split('|');

if (arr.Length != 6)

return false;

objCustomer.IdcardNo = arr[0];

objCustomer.Name = arr[1];

objCustomer.Ic = arr[2];

objCustomer.Address = arr[3];

objCustomer.Phone = arr[4];

objCustomer.Point1 = int.Parse(arr[5]);

return true;

}

private void btnRedemPoint\_Click(object sender, EventArgs e)

{

if (txtIDCardNo.Text == "-")

{

MessageBox.Show("Please enter ID Card No");

gbredeemitems.Enabled = false;

}

else

{

int point = int.Parse(txtCurrentPoint.Text); //read current point

if (point < 100)

{

MessageBox.Show("You do not have enough point for the redemption. Please try again later!");

gbredeemitems.Enabled = false;

}

else

{

MessageBox.Show("You are allowed for the redemption");

gbredeemitems.Enabled = true;

}

}

}

private void btnEnter\_Click(object sender, EventArgs e)

{

int pointToRedeem = int.Parse(txtPointtoRedeem.Text);// read point to redeem

if (pointToRedeem < 100)

{

MessageBox.Show("The point for the redemption should be more than 100");

}

else

{

if (pointToRedeem >= 100 && pointToRedeem <= 200)// if point for redemption more than 100 and less than 200

{

cmbItem1.Enabled = true; // combo box for items 1 is enabled

cmbItem2.Enabled = false;

cmbItem3.Enabled = false;

cmbItem4.Enabled = false;

}

else if (pointToRedeem >= 201 && pointToRedeem <= 300)//if point for redemption more than 201 and less than 300

{

cmbItem1.Enabled = false;

cmbItem2.Enabled = true; //combo box for items 2 is enabled

cmbItem3.Enabled = false;

cmbItem4.Enabled = false;

}

else if (pointToRedeem >= 301 && pointToRedeem <= 400)//if point for redemption more than 301 and less than 400

{

cmbItem1.Enabled = false;

cmbItem2.Enabled = false;

cmbItem3.Enabled = true; //combo box for items 3 is enabled

cmbItem4.Enabled = false;

}

else if (pointToRedeem >= 401)//if point for redemption more than 401

{

cmbItem1.Enabled = false;

cmbItem2.Enabled = false;

cmbItem3.Enabled = false;

cmbItem4.Enabled = true; //combo box for items 4 is enabled

}

}

}

private void btnRedeemnow\_Click(object sender, EventArgs e)

{

objCustomer = new Customer(); //Instantiate object named objCustomer of class Customer

Transaction objTransaction = new Transaction(); //Instantiate transaction named objTransaction of class Transaction

objCustomer.customerReg(objTransaction);

int currentPoint = int.Parse(txtCurrentPoint.Text); //read current point

int pointToRedeem = int.Parse(txtPointtoRedeem.Text); //read point for redemption

int balancePoint = currentPoint - pointToRedeem; //calculate balance point

txtRemainingPoint.Text = Convert.ToString(balancePoint); //display remaining point

string filepath = @"C:\Users\Athirah\Desktop\Assignment\1 HND LIFE\H3\OOP\CustomerInformation.txt";

objCustomer.Name = txtName.Text;

objCustomer.Ic = txtICNo.Text;

objCustomer.Address = txtAddress.Text;

objCustomer.Phone = txtPhoneNo.Text;

objCustomer.IdcardNo = txtIDCardNo.Text;

objCustomer.Point1 = int.Parse(txtRemainingPoint.Text);

SaveToFile(filepath); //save customer details in CustomerInformation.txt text file

}

bool SaveToFile(string Filepath)

{

string filepath = @"C:\Users\Athirah\Desktop\Assignment\1 HND LIFE\H3\OOP\CustomerInformation.txt";

if (!File.Exists(filepath))

{

// Create a file to write to.

using (StreamWriter file = File.CreateText(filepath))

{

string Line = CustomerToLine2(objCustomer);

file.WriteLine(Line);//write to file

}

}

else

// This text is always added, making the file longer over time

// if it is not deleted.

using (StreamWriter file = File.AppendText(filepath))

{

string Line = CustomerToLine2(objCustomer);

file.WriteLine(Line);

}

//file.Close();

return true;

}

string CustomerToLine2(Customer objCustomer) //display

{

StringBuilder sb = new StringBuilder();

sb.Append(objCustomer.IdcardNo);

sb.Append('|');

sb.Append(objCustomer.Name);

sb.Append('|');

sb.Append(objCustomer.Ic);

sb.Append('|');

sb.Append(objCustomer.Address);

sb.Append('|');

sb.Append(objCustomer.Phone);

sb.Append('|');

sb.Append(objCustomer.Point1);

return sb.ToString();

}

private void btnViewRedeemption\_Click(object sender, EventArgs e)

{

objCustomer = new Customer();//Instantiate object named objCustomer of class Customer

//display customer details and transaction details in list box

listRedeemItem.Items.Add("ID Card No: " + txtIDCardNo.Text);//

listRedeemItem.Items.Add("Name: " + txtName.Text);

listRedeemItem.Items.Add("IC No: " + txtICNo.Text);

listRedeemItem.Items.Add("Address: " + txtAddress.Text);

listRedeemItem.Items.Add("Phone No: " + txtPhoneNo.Text);

listRedeemItem.Items.Add("Redeem Point: " + txtPointtoRedeem.Text);

listRedeemItem.Items.Add("Selected Item: " + cmbItem1.Text + cmbItem2.Text + cmbItem3.Text + cmbItem4.Text);

listRedeemItem.Items.Add("Remaining Point: " + txtRemainingPoint.Text);

string filepath3 = @"C:\Users\Athirah\Desktop\Assignment\1 HND LIFE\H3\OOP\RedemptionReport.txt";

//read customer detail in text box

objCustomer.Name = txtName.Text;

objCustomer.Ic = txtICNo.Text;

//objCustomer.Address = txtAddress.Text;

//objCustomer.Phone = txtPhoneNo.Text;

objCustomer.IdcardNo = txtIDCardNo.Text;

objCustomer.Point1 =int.Parse(txtRemainingPoint.Text);

SaveToFile3(filepath3);

}

bool SaveToFile3(string Filepath3)

{

string filepath3 = @"C:\Users\Athirah\Desktop\Assignment\1 HND LIFE\H3\OOP\RedemptionReport.txt";

if (!File.Exists(filepath3))

{

// Create a file to write to.

using (StreamWriter file = File.CreateText(filepath3))

{

string Line = CustomerToLine3(objCustomer);

file.WriteLine(Line);//write to file

}

}

else

// This text is always added, making the file longer over time

// if it is not deleted.

using (StreamWriter file = File.AppendText(filepath3))

{

string Line = CustomerToLine3(objCustomer);

file.WriteLine(Line);

}

//file.Close();

return true;

}

string CustomerToLine3(Customer objCustomer)

{

//save customer detail and redemption detail in text box

StringBuilder sb = new StringBuilder();

sb.Append("ID CARD NO: ");

sb.Append(objCustomer.IdcardNo);

sb.Append(" NAME: ");

sb.Append(objCustomer.Name);

sb.Append(" IC NO: ");

sb.Append(objCustomer.Ic);

sb.Append(" ACCUMULATED POINT:");

sb.Append(txtCurrentPoint.Text);

sb.Append(" POINT TO REDEEM: ");

sb.Append(txtPointtoRedeem.Text);

sb.Append(" SELECTED ITEM: ");

sb.Append(cmbItem1.Text + cmbItem2.Text + cmbItem3.Text + cmbItem4.Text);

sb.Append(" BALANCE POINT: ");

sb.Append(objCustomer.Point1);

Debug.WriteLine(sb.ToString());

return sb.ToString();

}

private void btnMainMenu\_Click(object sender, EventArgs e)

{

this.Hide();

Main\_Menu mainMenu = new Main\_Menu();

mainMenu.ShowDialog();

this.Close();

}

private void btnExit\_Click(object sender, EventArgs e)

{

Application.Exit();

}

private void btnClear\_Click(object sender, EventArgs e)

{

Controls.Clear();

InitializeComponent();

}

}

}

**7. View all report**

namespace AssignmentPetrol

{

public partial class view\_all\_Report : Form

{

public view\_all\_Report()

{

InitializeComponent();

}

private void btnCustomerReport\_Click(object sender, EventArgs e)

{

//customer report form displayed

this.Hide();

Customer\_Report reportCustomer = new Customer\_Report();

reportCustomer.ShowDialog();

this.Close();

}

private void btnTransactionReport\_Click(object sender, EventArgs e)

{

//transaction report form displayed

this.Hide();

Transaction\_Report reportTransaction = new Transaction\_Report();

reportTransaction.ShowDialog();

this.Close();

}

private void btnRedeemptionReport\_Click(object sender, EventArgs e)

{

//redemption report form displayed

this.Hide();

Redeemption\_Report reportRedeemption = new Redeemption\_Report();

reportRedeemption.ShowDialog();

this.Close();

}

private void button1\_Click(object sender, EventArgs e)

{

//main menu form displayed

this.Hide();

Main\_Menu mainMenu = new Main\_Menu();

mainMenu.ShowDialog();

this.Close();

}

private void btnExit\_Click(object sender, EventArgs e)

{

Application.Exit();// application close

}

}

}

**8. Customer Information**

namespace AssignmentPetrol

{

public partial class Customer\_Report : Form

{

public Customer\_Report()

{

InitializeComponent();

}

private void txtView\_Click(object sender, EventArgs e)

{

string filepath = @"C:\Users\Athirah\Desktop\Assignment\1 HND LIFE\H3\OOP\CustomerInformation.txt";

string line;

if (System.IO.File.Exists(filepath) == true)

{

using (StreamReader reader = new StreamReader(filepath))

{

listBoxReport.Items.Add("ID CARD NO" + "\t" + "CUST NAME" + "\t" + "CUST IC NO" + "\t " + "ADDRESS" + "\t " + "PHONE NO" + "\t " + "CURRENT POINT");

listBoxReport.Items.Add("-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------");

while (!reader.EndOfStream)

{

line=reader.ReadLine();

Customer objCustomer;

ParseCustomer(line, out objCustomer);

listBoxReport.Items.Add(objCustomer.IdcardNo + "\t" + objCustomer.Name + "\t" + objCustomer.Ic + "\t " + objCustomer.Address + "\t " + objCustomer.Phone+ "\t " + objCustomer.Point1);

}

}

}

else

MessageBox.Show("File" + filepath + "doesn't exist");

}

bool ParseCustomer(string Text, out Customer objCustomer)//utk splitkan data by bar

{

objCustomer = new Customer();

string[] arr = Text.Split('|');

if (arr.Length != 6)

return false;

objCustomer.IdcardNo = arr[0];

objCustomer.Name = arr[1];

objCustomer.Ic = arr[2];

objCustomer.Address = arr[3];

objCustomer.Phone = arr[4];

objCustomer.Point1 = int.Parse(arr[5]);

return true;

}

private void btnMainMenu\_Click(object sender, EventArgs e)

{

this.Hide();

view\_all\_Report back = new view\_all\_Report();

back.ShowDialog();

this.Close();

}

private void btnExit\_Click(object sender, EventArgs e)

{

Application.Exit();

}

private void btnClear\_Click(object sender, EventArgs e)

{

Controls.Clear();

InitializeComponent();

}

}

}

**9. Transaction report**

namespace AssignmentPetrol

{

public partial class Transaction\_Report : Form

{

public Transaction\_Report()

{

InitializeComponent();

}

private void btnMainMenu\_Click(object sender, EventArgs e)

{

//MAIN MENU FORM DISLAYED

this.Hide();

view\_all\_Report back = new view\_all\_Report();

back.ShowDialog();

this.Close();

}

private void btnExit\_Click(object sender, EventArgs e)

{

Application.Exit(); //APPLICATION CLOSED

}

private void btnClear\_Click(object sender, EventArgs e)

{

//FORM WILL BE CLEARED

Controls.Clear();

InitializeComponent();

}

private void txtView\_Click(object sender, EventArgs e)

{

string filepath2 = @"C:\Users\Athirah\Desktop\Assignment\1 HND LIFE\H3\OOP\CustomerTransaction.txt";

listBoxReport.Items.Add("ID CARD NO" + " " + "NAME" + " " + "IC NO" + " " + "TOTAL LITRE" + " " + "TOTAL PRICE ITEMS" + " " + "TOTAL TRANSACTION" + " " + "PAYMENT" + " " + "BALANCE");

listBoxReport.Items.Add("---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------");

//display all the details in text file in list box.

string[] readTextFile = File.ReadAllLines(filepath2);

for (int i = 0; i < readTextFile.Length; i++)

{

listBoxReport.Items.Add(readTextFile[i]);

}

}

}

}

**10. Transaction receipt form**

namespace AssignmentPetrol

{

public partial class Transaction\_Receipt : Form

{

Customer objCustomer = new Customer();

Transaction objTransaction = new Transaction();

public Transaction\_Receipt()

{

InitializeComponent();

}

private void btnView\_Click(object sender, EventArgs e)

{

//display Customer's detail and transaction detail in list box

listBoxTransaction.Items.Add("ID Card No: " + Program.IDCard);

listBoxTransaction.Items.Add("Name: " + Program.Name);

listBoxTransaction.Items.Add("IC No: " + Program.IC);

listBoxTransaction.Items.Add("Total Fuels: " + Program.fuel);

listBoxTransaction.Items.Add("Price for fuel: " + Program.pricelitre);

listBoxTransaction.Items.Add("Price for items: " + Program.item);

listBoxTransaction.Items.Add("Total Price: " + Program.totalTransaction);

listBoxTransaction.Items.Add("Payment: " + Program.payment);

listBoxTransaction.Items.Add("Balance: " + Program.balance);

}

private void btnMainMenu\_Click(object sender, EventArgs e)

{

//main menu form displayed

this.Hide();

Main\_Menu mainMenu = new Main\_Menu();

mainMenu.ShowDialog();

this.Close();

}

private void btnExit\_Click(object sender, EventArgs e)

{

Application.Exit();

}

private void btnClear\_Click(object sender, EventArgs e)

{

//form cleared

Controls.Clear();

InitializeComponent();

}

}

}

**11. Redemption Report form**

namespace AssignmentPetrol

{

public partial class Redeemption\_Report : Form

{

public Redeemption\_Report()

{

InitializeComponent();

}

private void btnMainMenu\_Click(object sender, EventArgs e)

{

this.Hide();

view\_all\_Report back = new view\_all\_Report();

back.ShowDialog();

this.Close();

}

private void btnExit\_Click(object sender, EventArgs e)

{

Application.Exit();

}

private void btnClear\_Click(object sender, EventArgs e)

{

Controls.Clear();

InitializeComponent();

}

private void txtView\_Click(object sender, EventArgs e)

{

string filepath3 = @"C:\Users\Athirah\Desktop\Assignment\1 HND LIFE\H3\OOP\RedemptionReport.txt"; //filepath for redemption details

//display all the details in text file in list box.

string[] readTextFile = File.ReadAllLines(filepath3);

for (int i = 0; i < readTextFile.Length; i++)

{

listBoxReport.Items.Add(readTextFile[i]);

}

}

}

}