Project Evaluation Sheet

Student Name:	Bryant Tunbutr	Project Number:	3			
Project Name:	BtunbutrProject3	Visual Studio Version:_	2008			
Date Due:	11/1/12	Date Turned In:	11/1/12			
	Above to be complete	<u> </u>				
Correctness/Efficienc		Points (_	Possible)			
Output is accurate						
Meets all requiren	nents					
Provide appropriate user interface						
Logic is efficient						
Documentation/Coding	ng Style: n from the submitted zip file					
-	and contains all necessary project files (r	no extra files)				
Use required coding template						
Use proper naming and spacing						
Submit all request						
Test Cases:						
List all required te						
Provide output for						
Other issues:						
Extra Credit:						
Timeliness:						
Project Score:						

Project specification

This software is intended to summarize, calculate, and display costs for repairs for Bryant's Auto Repair Shop.

It is designed to be run in Visual Studio 2008 using the C# coding.

It uses user input including the selected part to be repaired and number of hours.

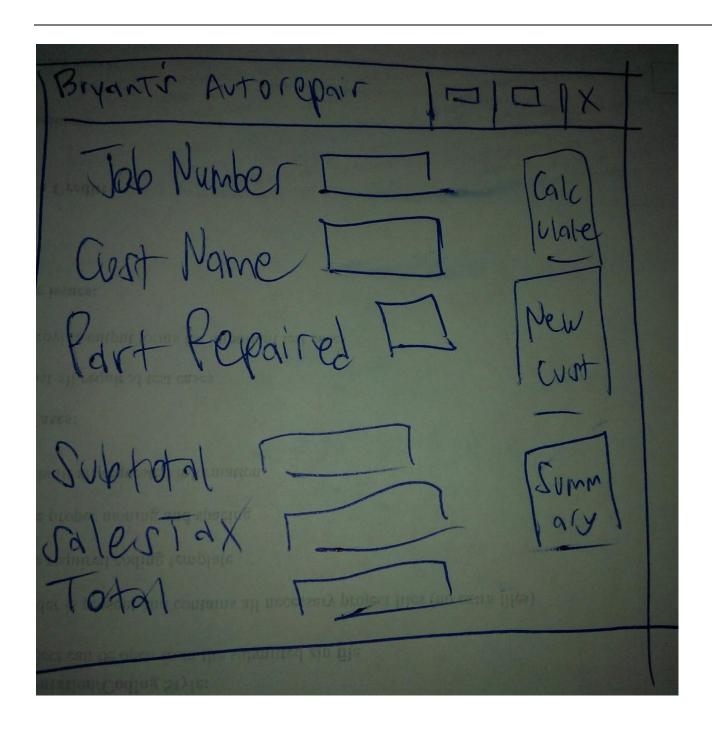
It displays total cost, summary, and provides information about the program with an about button.

Used in the project are arrays, methods, calculations, multiple forms including summary and about and splash.

Project status

The project is completed and finalized..

Sketch of user interface



CISP 41

Programming in C#

Objects and Properties Plan for __ BTunbutrProject 3_____Form

Object	Property	Setting
exitButton	Name Text	E&xit
New Customer	Name Text	&New Customer
Button		
Subtotal	Text	Method
label	Name Text	Summary
Combo text box	Text	Drop down
about	Name Text	Info
BTunbutrProject3	Name Text	Form
Menu	Name Text	Click
splash	Text	Form

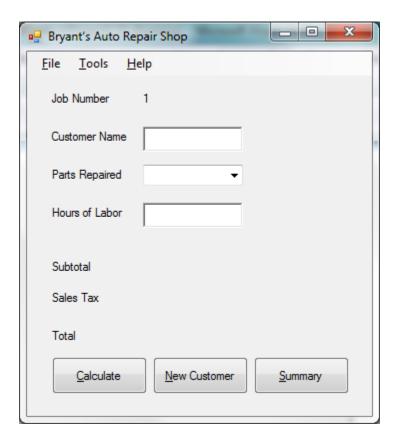
Event Plan for ____ BTunbutrProject 3_____Form

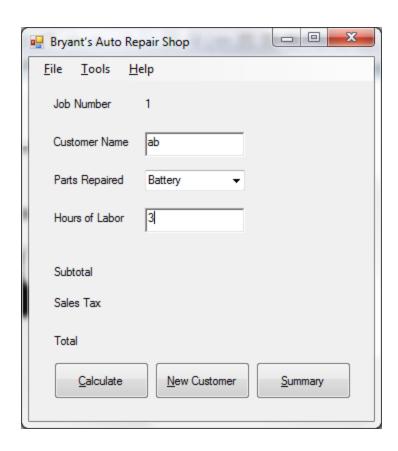
Object	Event	Action - Pseudocode
summaryButton	Click	Call summaryButton_Click. Display the price of the order. Put new form up Add to the number of orders and totalSales. Reset the controls for the next order. Clear the order amount
About	Click	Display the program info in a new form
aboutToolStripMen uItem	Click	Display a message box showing programmer and version
exitButton	Click	exit
Menu	Click	Buttons that are the same name
Drop down	Click	Select array

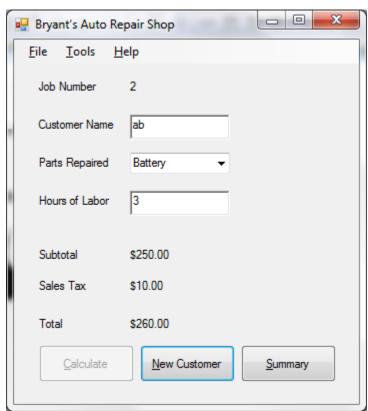
Test cases and captured screens

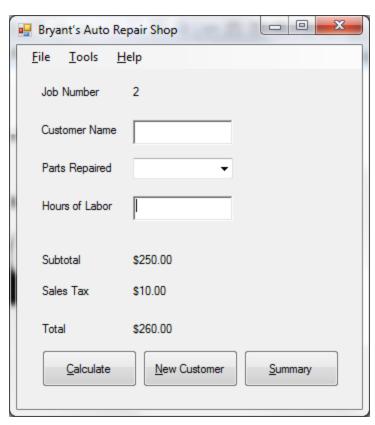
Test case #1 Ab orders battery with 3 hours of labor Bea orders engine with 11 hours of labor

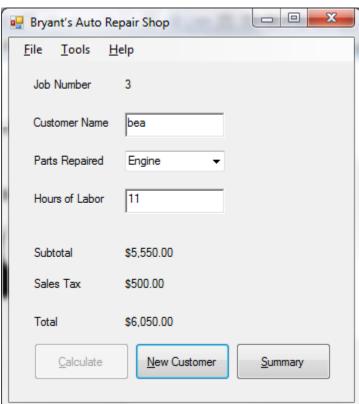


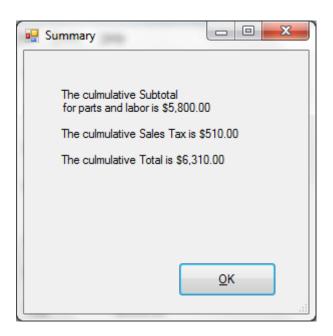




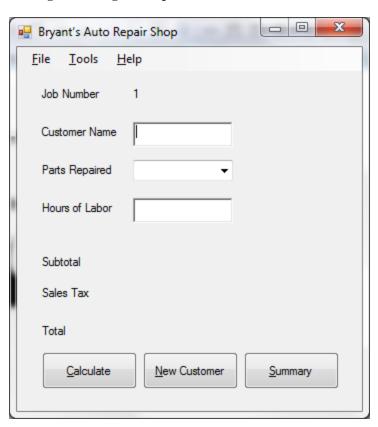


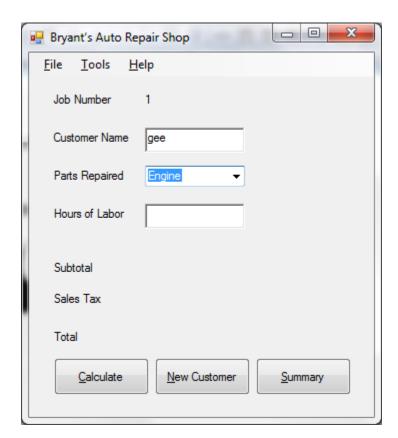




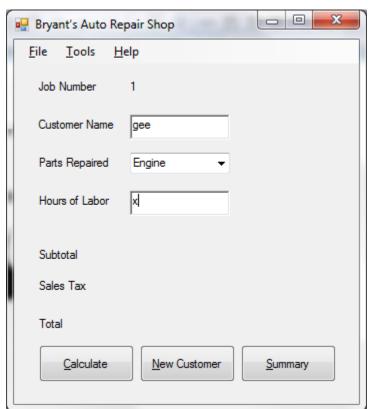


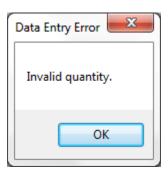
Test case #2 Missing and wrong data input

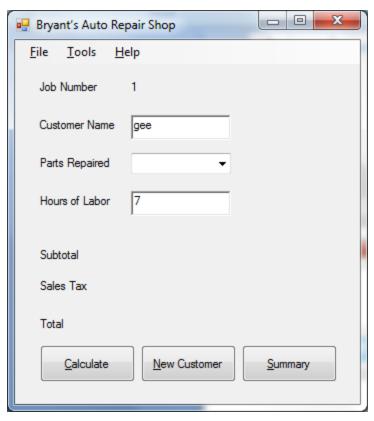


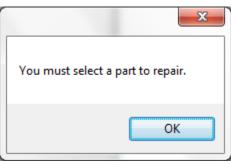




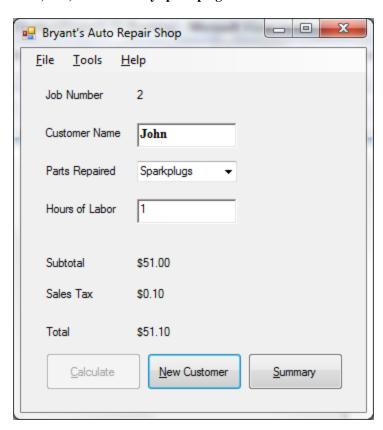


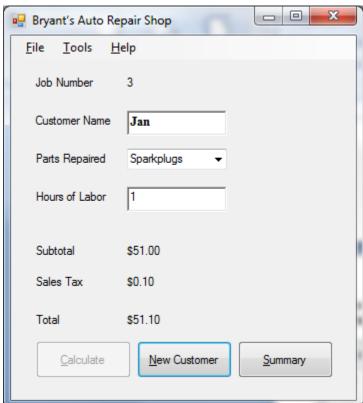


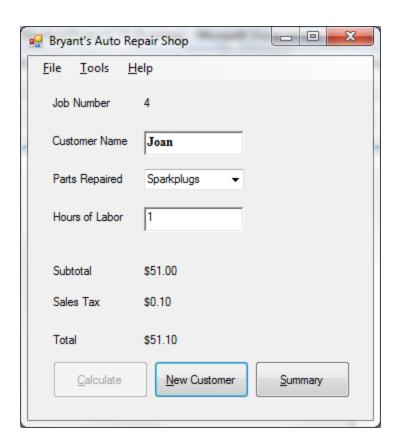


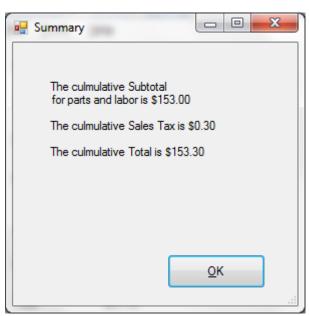


Test case #3
John, Jan, Joan each buy spark plug with 1 hour of labor each

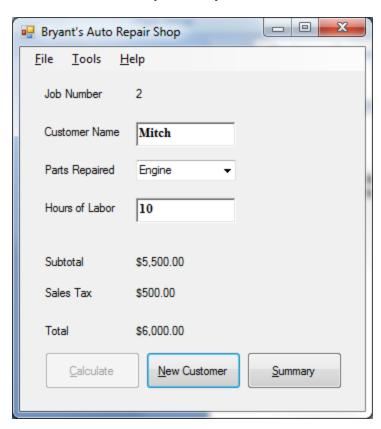


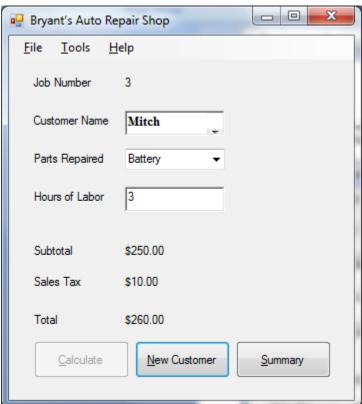


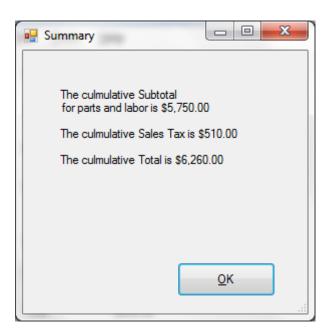




Test case #4 Mitch buys an engine that takes 10 hours Then comes back and buys a battery that takes 3 hours







Source code

Main form

```
* Project: BtunbutrProject3
* Programmer: Bryant Tunbutr
* Date: Nov 1 2012
* Description: Calculates and displays the cost for autoshop materials and labor
* I certify that the code below is my own work.
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System. Windows. Forms;
namespace WindowsFormsApplication14
    public partial class Form1 : Form
        public struct GroupInfo
            //public string groupNumberString;
            public decimal totalDecimal, groupNumberDecimal, totalsDecimal;
            public int groupNumberInteger;
        // Declare the variables.
        decimal partsChargesDec, subTotalDec,
            salesTaxDec, totalDec, laborChargesDec,
            summarySalesTaxDec, summarySubTotalDec, summaryTotalDec;
        int number, groupNumberInteger;
        public Form1()
            InitializeComponent();
            //Intialize the variable to 1
            number = 1;
            //Intialize the label to 1 as well
            jobLabel.Text = number.ToString();
        }
        private void calculateToolStripMenuItem Click(object sender, EventArgs
e)
        {
        }
        private void exitToolStripMenuItem Click(object sender, EventArgs e)
```

```
this.Close();
        private void newCustomerToolStripMenuItem Click(object sender, EventArgs
e)
        {
            // clear boxes
            customerNameTextBox.Text = "";
            hoursOfLaborTextBox.Text = "";
            groupComboBox.Text = "";
            //set focus
            hoursOfLaborTextBox.Focus();
            //enable calculate
            calculateButton.Enabled = true;
        }
        private void aboutToolStripMenuItem Click(object sender, EventArgs e)
            //show about form
            AboutBox1 aboutForm = new AboutBox1();
            aboutForm.ShowDialog();
        private void jobLabel Click(object sender, EventArgs e)
        }
        private void button1 Click(object sender, EventArgs e)
            // Add the current item price and quantity to the order.
            //check for missing info
            if (groupComboBox.SelectedIndex == -1)
            {
                MessageBox.Show("You must select a part to repair.");
            if (hoursOfLaborTextBox.Text == "")
                MessageBox.Show("You must record hours of labor.");
            }
            else
            {
                try
                    //calculate by using what customer selected, match with
prices here
                    groupNumberInteger = groupComboBox.SelectedIndex;
                    switch (groupComboBox.SelectedIndex)
                    {
                        case 0:
                            partsChargesDec = 100m;
                            break;
                        case 1:
                            partsChargesDec = 5000m;
                            break;
                        case 2:
                            partsChargesDec = 1m;
                            break;
```

```
case 3:
                            partsChargesDec = 50m;
                            break;
                    }
                    decimal hoursOfLaborDec =
decimal.Parse(hoursOfLaborTextBox.Text);
                    // Calculate values.
                    salesTaxDec = partsChargesDec * .1m;
                    laborChargesDec = hoursOfLaborDec * 50m;
                    subTotalDec = partsChargesDec + laborChargesDec;
                    totalDec = subTotalDec + salesTaxDec;
                    //Display the results
                    salesTaxInfoLabel.Text = salesTaxDec.ToString("C");
                    subtotalInfoLabel.Text = subTotalDec.ToString("C");
                    totalInfoLabel.Text = totalDec.ToString("C");
                    //Increase job number, increment the number
                    number++;
                    //Update the label. Convert the number to a string
                    jobLabel.Text = number.ToString();
                    //disable calculate
                    calculateButton.Enabled = false;
                    // running total of sales tax, subtotal, total for all
customers
                    summarySalesTaxDec += salesTaxDec;
                    summarySubTotalDec += subTotalDec;
                    summaryTotalDec += totalDec;
                catch (FormatException)
                    // Error message for bad info.
                    MessageBox.Show("Invalid quantity.", "Data Entry Error");
                }
            }
        }
        private void summaryButton Click(object sender, EventArgs e)
            // Display the summary form.
            SummaryForm aSummaryForm = new SummaryForm();
            // send info to the summary form.
            aSummaryForm.SummarySubTotal = summarySubTotalDec;
            aSummaryForm.SummarySalesTax = summarySalesTaxDec;
            aSummaryForm.SummaryTotal = summaryTotalDec;
            // make modal summary form.
            aSummaryForm.ShowDialog();
    }
}
```

Summary form

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System. Data;
using System. Drawing;
using System.Ling;
using System. Text;
using System.Windows.Forms;
namespace WindowsFormsApplication14
    public partial class SummaryForm : Form
        // make values accessible to this summary form
        decimal summarySubTotalDec, summarySalesTaxDec, summaryTotalDec;
        public decimal SummarySubTotal
            set
            summarySubTotalDec = value;
        }
        public decimal SummarySalesTax
            set
                summarySalesTaxDec = value;
        public decimal SummaryTotal
            set
                summaryTotalDec = value;
        public SummaryForm()
            InitializeComponent();
        private void Form2 Load(object sender, EventArgs e)
            // display summary
            summaryLabel.Text = "The culmulative Subtotal" + "\r\n" + " for
parts and labor is " +
                summarySubTotalDec.ToString("c") + "\r\n" + "\r\n" +
                "The culmulative Sales Tax is " +
summarySalesTaxDec.ToString("c") + "\r\n" + "\r\n" +
                "The culmulative Total is " + summaryTotalDec.ToString("c");
```

```
private void okButton_Click(object sender, EventArgs e)
{
    this.Close();
}
```