Good project with a couple minor problems.

### CISP 41

## Programming in C#

### Project Evaluation Sheet

Student Name:	Bryant Tunbutr	Project Number:	2	
Project Name:BtunbutrProject2		Visual Studio Versio	n:2008	
Date Due:	10/11/12	Date Turned In:	10/11/12	
	Above to be complete	-		
Correctness/Efficienc	y:	Points	( 40 Possible)	
Output is accurate				
Meets all requirem	nents		2	
Provide appropria	te user interface			
Logic is efficient				
Documentation/Codin Project can be ope	ng Style: n from the submitted zip file			
Folder is present a	nd contains all necessary project files (r	no extra files)		
Use required codir	ng template			
Use proper naming	g and spacing			
Submit all request	ed information			
Test Cases:				
List all required te	est cases			
Provide output for	ms for important test cases			
Other issues:				
Extra Credit:			+4	
Timeliness:				
Project Score:			42/40	

#### **CISP 41**

### **Programming in C#**

#### Project specification

This software is intended to summarize, calculate, and display costs for personalized shirts for the company Cool Boards. It is designed to be run in Visual Studio 2008 using the C# coding. It uses user input including the shirt size, quantity, additional features like monograms or pockets.

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

Project status

The project is completed and finalized. Extra credit summary and order complete features are included.

## **CISP 41**

# Programming in C#

Sketch of user interface

Provided on page 216 of textbook

## **CISP 41**

## **Programming in C#**

Objects and Properties Plan for \_\_\_\_\_Form

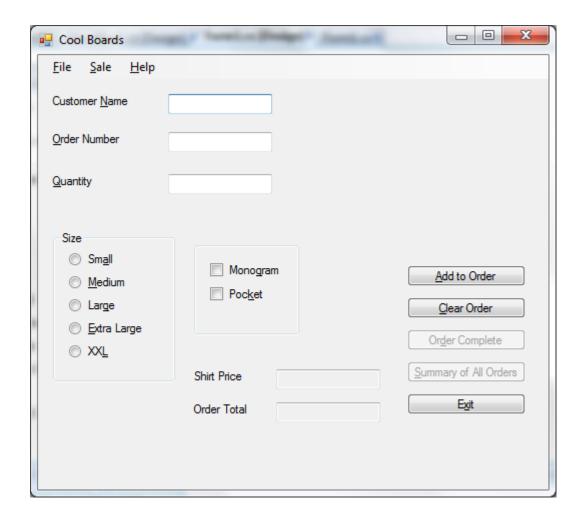
Property	Setting
Name Text	E&xit
Name Text	C&lear
Text	
Name Text	Order Total
Text	Size
Name Text	Info
Name Text	Form
Name Text	Click
Text	Click feature shirt
	Name Text Name Text Text Name Text Text Name Text Name Text Name Text Name Text

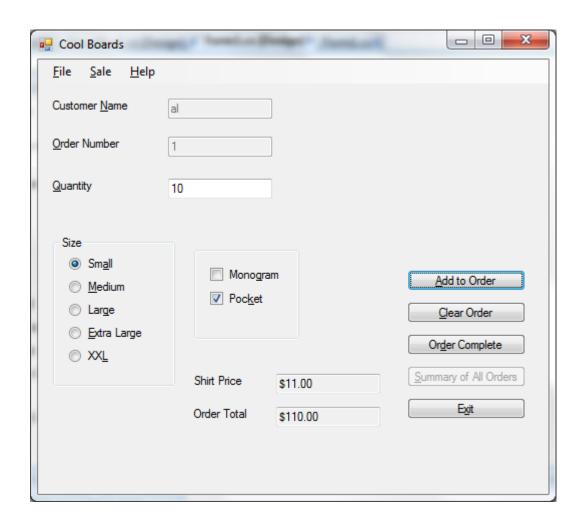
Event Plan for \_\_\_\_ BTunbutrProject 2\_\_\_\_\_Form

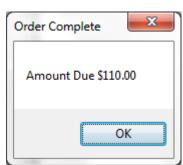
Object	Event	Action - Pseudocode
orderCompleteButt on	Click	If last item not cleared from screen Ask user whether to add it. If yes Call addToOrderButton_Click. Display the price of the order. Add to the number of orders and totalSales. Reset the controls for the next order. Clear the order amount
summaryButton	Click	Display the summary totals in a message box.
aboutToolStripMen uItem	Click	Display a message box showing programmer and version
exitButton	Click	exit

Test cases and captured screens

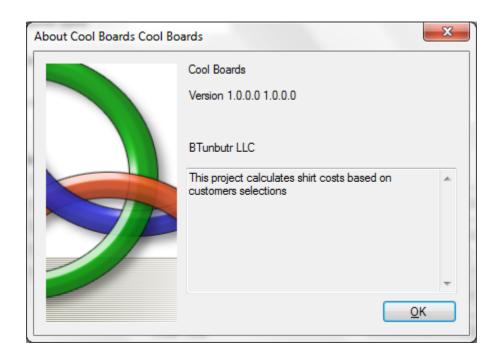
#### Test case #1 Ordering 10 small shirts with pockets



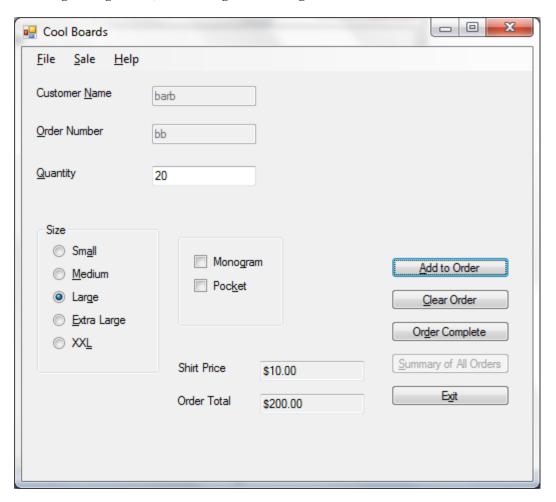


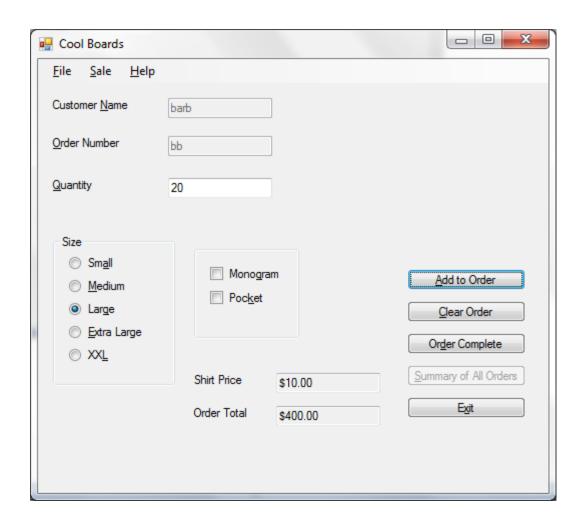


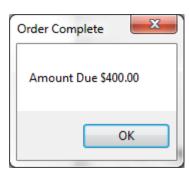




Test case #2 Ordering 20 large shirts, then adding 20 more large shirts with the same customer barb

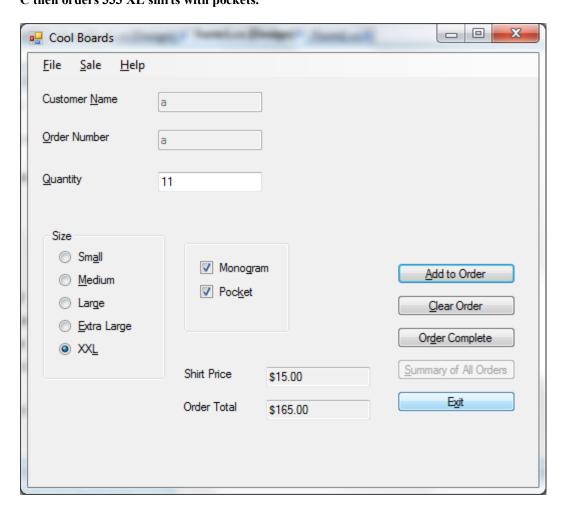


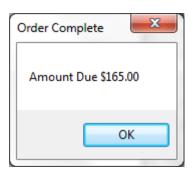


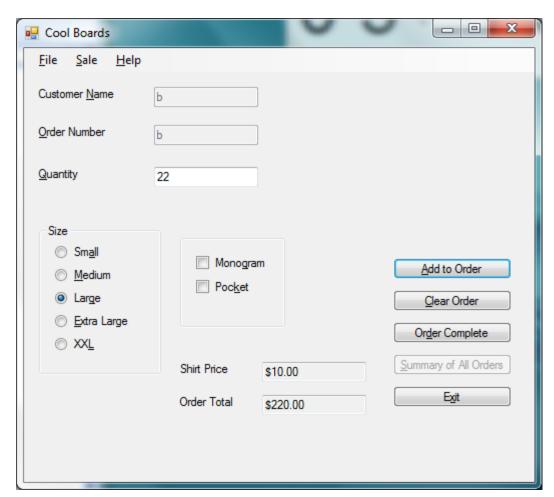


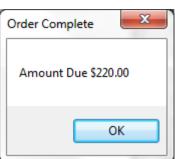


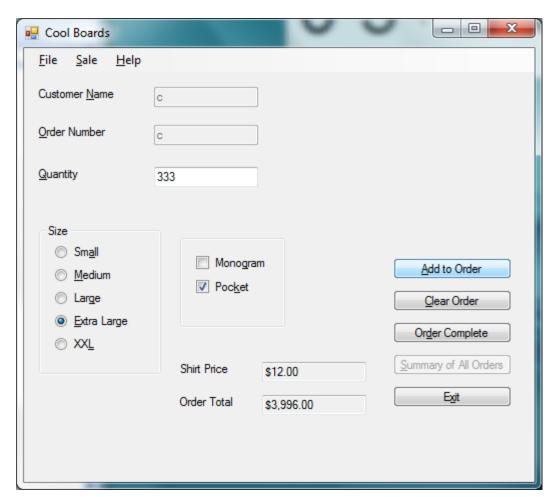
Test case #3
A orders 11 XXL shirts with monograms and pockets
B then orders 22 large shirts
C then orders 333 XL shirts with pockets.

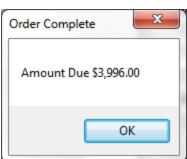






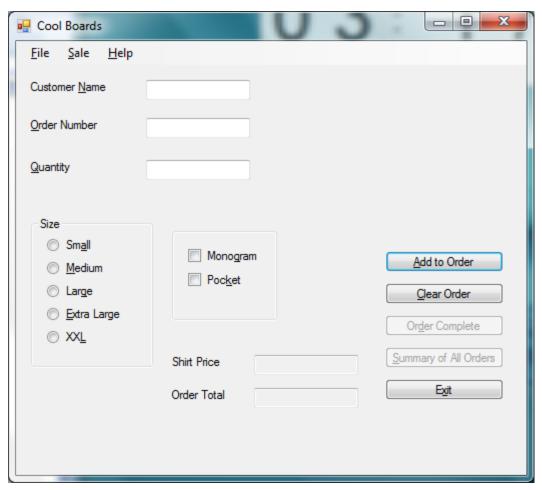




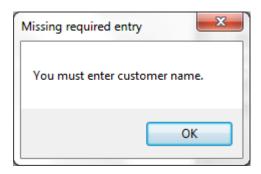




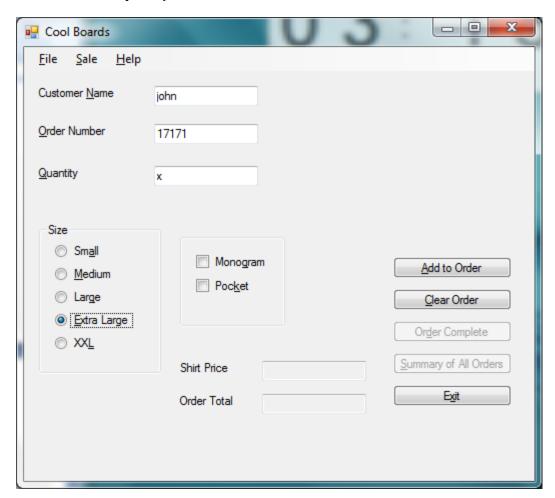
Test case #4
Person forgets to enter data and just clicks add to order

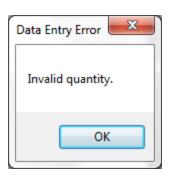






#### Test case #5 John writes x as a quantity





#### Source code

```
/* Program:
               Cool Boards
    Author:
                Bryant Tunbutr
    Class:
               CISP41-22726201220
               10/11/12
    Description: This project calculates the amount due
    based on the customer selection
    and accumulates summary data for all customers.
    Includes menus, common dialog boxes, and general methods.
    I certify that the code below is my own work.
  Exception(s): N/A
*/
using System;
using System. Windows. Forms;
namespace WindowsFormsApplication13
    public partial class Form1 : Form
        // Declare class variables.
        private decimal itemPriceDecimal,
                        totalOrderDecimal,
                        shirtPriceDecimal,
                        totalSalesDecimal;
        private int shirtsInteger,
                         ordersInteger;
        public Form1()
            InitializeComponent();
        private void exitButton Click(object sender, EventArgs e)
            // To close program.
            this.Close();
        }
        private void addToOrderButton Click(object sender, EventArgs e)
            // Add the current item price and quantity to the order.
            int extrasInteger = 0;
            if (noSizeRadioButton.Checked)
                // Error message for missing info.
                MessageBox.Show("You must select a shirt size.",
                    "Missing required entry");
            }
```

```
// Error message for missing info.
                      MessageBox.Show("You must enter customer name.",
                    "Missing required entry");
            else
            {
                try
                    // Calculate price based on size and quantity.
                    int quantityInteger = int.Parse(quantityTextBox.Text);
                    if (quantityInteger != 0)
                        if (smallRadioButton.Checked)
                            itemPriceDecimal = 10m;
                        if (mediumRadioButton.Checked)
                            itemPriceDecimal = 10m;
                        if (largeRadioButton.Checked)
                             itemPriceDecimal = 10m;
                        else if (extraLargeRadioButton.Checked)
                            itemPriceDecimal = 11m;
                        else if (xxlRadioButton.Checked)
                            itemPriceDecimal = 12m;
                        }
                        // Calculate price based on pockets and monograms.
                        extrasInteger = 0;
                        if (pocketCheckBox.Checked)
                        {
                            extrasInteger++;
                        if (monogramCheckBox.Checked)
                            extrasInteger+=2;
                        itemPriceDecimal += extrasInteger * 1m; // 1 dollar for
each item.
                        // display price of one shirt.
                        shirtPriceDecimal =
findshirtPriceDecimal(itemPriceDecimal, quantityInteger);
                        shirtPriceTextBox.Text = itemPriceDecimal.ToString("C");
                        shirtPriceTextBox.Text = itemPriceDecimal.ToString("C");
                        // running total of shirts
                        shirtsInteger += quantityInteger;
                        // running total of orders
                         totalOrderDecimal += shirtPriceDecimal;
```

if (customerTextBox.Text == "")

```
// total of cost of order
                         orderTotalTextBox.Text =
totalOrderDecimal.ToString("C");
                         customerTextBox.Enabled = false;
                         orderTextBox.Enabled = false;
                         orderCompleteButton.Enabled = true;
                    }
                    else
                        // Error message for missing info.
                        MessageBox. Show ("Please enter a quantity.",
                            "Missing Required Entry");
                    }
                catch (FormatException)
                    // Error message for bad info.
                    MessageBox.Show("Invalid quantity.", "Data Entry Error");
                    quantityTextBox.Focus();
                    quantityTextBox.SelectAll();
                }
                }
       private decimal findshirtPriceDecimal(decimal itemPriceDecimal, int
quantityInteger)
        {
            // method to find price.
            return (itemPriceDecimal * quantityInteger);
        private void clearOrderButton Click(object sender, EventArgs e)
            // clear everything for next customer
            customerTextBox.Text = "";
            orderTextBox.Text = "";
            quantityTextBox.Text = "";
                                               Need to disable "Order Complete"
            shirtPriceTextBox.Text = "";
            orderTotalTextBox.Text = "";
            totalOrderDecimal = 0;
            customerTextBox.Enabled = true;
            orderTextBox.Enabled = true;
            summaryOfAllOrdersButton.Enabled = false;
        }
        private void orderCompleteButton Click(object sender, EventArgs e)
            // Order is complete, add to summary and clear order.
            // Check if the last item was added to the total.
            if (shirtPriceTextBox.Text != "")
                DialogResult responseDialogResult;
                string messageString = "Current Item not recorded. Add to
order?";
                responseDialogResult = MessageBox.Show(messageString,
                    "Verify Last Shirt Purchase",
```

```
Problems here. Always ask to add to order again
                       (already added). Also need to set up for next
            MessageBoxButtons.YesNo,
                                          customer.
            MessageBoxIcon.Question);
        if (responseDialogResult == DialogResult.Yes)
            addToOrderButton Click(sender, e);
        }
    }
    // Display amount due.
    string dueString = "Amount Due " + totalOrderDecimal.ToString("C");
    MessageBox.Show(dueString, "Order Complete");
    // Add to summary totals.
    ordersInteger++;
    totalSalesDecimal += totalOrderDecimal;
    // Reset buttons and total for new order.
    summaryOfAllOrdersButton.Enabled = true;
    orderCompleteButton.Enabled = false;
    totalOrderDecimal = 0m;
}
private void summaryOfAllOrdersButton Click(object sender, EventArgs e)
    // Display the summary information in a message box.
    string summaryString = "Shirts Sold:
            + shirtsInteger.ToString()
            + "\n\n" + "Number of Orders: "
            + ordersInteger.ToString()
            + "\n\n" + "Total Sales:
            + totalSalesDecimal.ToString("C");
    MessageBox. Show (summaryString, "Shirt Sales Summary",
        MessageBoxButtons.OK,
        MessageBoxIcon.Information);
}
private void aboutToolStripMenuItem Click(object sender, EventArgs e)
    // show programmer info.
    AboutBox1 aboutForm = new AboutBox1();
    aboutForm.ShowDialog();
}
        }
}
```