```
//Jenet Baribeau
//CIS 199-01
//February 11,2015
// Program 1

using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;

namespace Program_1
{
    public partial class programForm1 : Form
    {
        public programForm1()
        {
            InitializeComponent();
        }

        private void calculateButton_Click(object sender, EventArgs e)
        {
            //Declare variables.
            double squareFeet; //Hold SqFt from textbox
            int numCoats; //Hold number of coats needed from textbox
            double gallons; // Hold to determine gallons to be purchased
            double numHours; // Hold to determine number of hours needed
            double laborCost; //Hold Labor Cost
            double paintCost; //Hold paint cost each
            double totalPaintCost; // Hold total paint cost
            double totalCost; // Hold to determine total price

            const double GALLONS_PER_SQFT = 325; // Constant to determine number of
gallons necessary
            const double HOURS_PER_GALLON = 8; //Constant to determine hours necessary to
perform work per Gallon of Paint
            const double LABORCOST_PER_HOUR = 10.50; //Constant to determine total cost

            //Get Square Footage & numbers to calculate
            squareFeet = double.Parse(squareFeetTextBox.Text);
            numCoats = int.Parse(coatsTextBox.Text);
            paintCost = double.Parse(paintCostTextBox.Text);

            //Calculations
            gallons = Math.Ceiling((squareFeet * numCoats)/GALLONS_PER_SQFT);
            numHours = gallons * HOURS_PER_GALLON;
            laborCost = numHours * LABORCOST_PER_HOUR;
            totalPaintCost = gallons * paintCost;
            totalCost = laborCost + totalPaintCost;

            //Display output in textboxes
            gallonsTextBox.Text = gallons.ToString("n"); //Gallons
            laborTextBox.Text = numHours.ToString("n1"); //Labor
            totalPaintCostTextBox.Text = totalPaintCost.ToString("c"); //total paint cost
```

```
            totalLaborCostTextBox.Text = laborCost.ToString("c");//total labor cost
            totalCostTextBox.Text = totalCost.ToString("c"); //total projected costs


        }

        private void clearButton_Click(object sender, EventArgs e)
        {
            gallonsTextBox.Text = " ";
            laborTextBox.Text = " ";
            totalPaintCostTextBox.Text = " ";
            totalLaborCostTextBox.Text = " ";
            totalCostTextBox.Text = " ";
            paintCostTextBox.Text = " ";
            totalLaborCostTextBox.Text = " ";
            squareFeetTextBox.Text = " ";
            coatsTextBox.Text = " ";
        }
    }
}
```