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1  /*      Grading ID: B8890
2  *      Program: 1
3  *      Due Date: September 25, 2016
4  *      Course: CIS 199
5  *      Course Section: 75
6  *      Program:
7  *      This program will use textboxes to calculate inputs for business logic
      outputs
8  *
9  *
10 */
11
12 using System;
13 using System.Collections.Generic;
14 using System.ComponentModel;
15 using System.Data;
16 using System.Drawing;
17 using System.Linq;
18 using System.Text;
19 using System.Threading.Tasks;
20 using System.Windows.Forms;
21
22 namespace Program1
23 {
24     public partial class Form1 : Form
25     {
26         public Form1()
27         {
28             InitializeComponent();
29         }
30
31         private void Process_Btn_Click(object sender, EventArgs e)
32         {
33             //constants for business logic
34             const double laborRate = 12.5; //Contains labor rate for calcuations
35             const double squareFeetPerGallon = 275; //Contains amount of square
      feet needs gallon of paint and 8 hours of labor
36             const double laborPerGallon = 8; //Conatains amount of labor needed
      per gallon
37
38             //Grab text and convert to variables for calc
39             double wallSgreFeet = double.Parse(tot_feet_txt.Text); //Total Wall
      Square Feet for calcuations
40             int coats = int.Parse(coats_txt.Text); //Total Coats for calc
41             double ppergal = double.Parse(price_per_gal_txt.Text); //Total Price
      per gallon of paint
42
43             //Calcuations
44             double totSgreFeet = wallSgreFeet * coats; //total square feet to be
      painted by using coats and wall
45             double buisnessUnit = totSgreFeet / squareFeetPerGallon; //
      BusinessUnit for billables and paint calcuations
```

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46         int gallons = (int)Math.Ceiling(buisnessUnit); //totalGallons of paint ↗
           needed
47         double laborHours = buisnessUnit * laborPerGallon; //total labor hours ↗
           needed;
48         double costPaint = ppergal * gallons; //Total Cost of Paint
49         double costLabor = laborHours * laborRate; //Total Labor Cost
50         double costTotal = costPaint + costLabor; //total Cost of job
51
52
53
54         //Business logic variables to outputs
55         Tot_Sqr_Feet.Text = totSqreFeet.ToString("f1");
56         Tot_Gallons.Text = gallons.ToString("f0");
57         Tot_Hrs.Text = laborHours.ToString("F1");
58         Cost_Paint.Text = costPaint.ToString("C");
59         Cost_Labor.Text = costLabor.ToString("C");
60         Cost_Total.Text = costTotal.ToString("C");
61
62
63
64     }
65 }
66 }
67
```