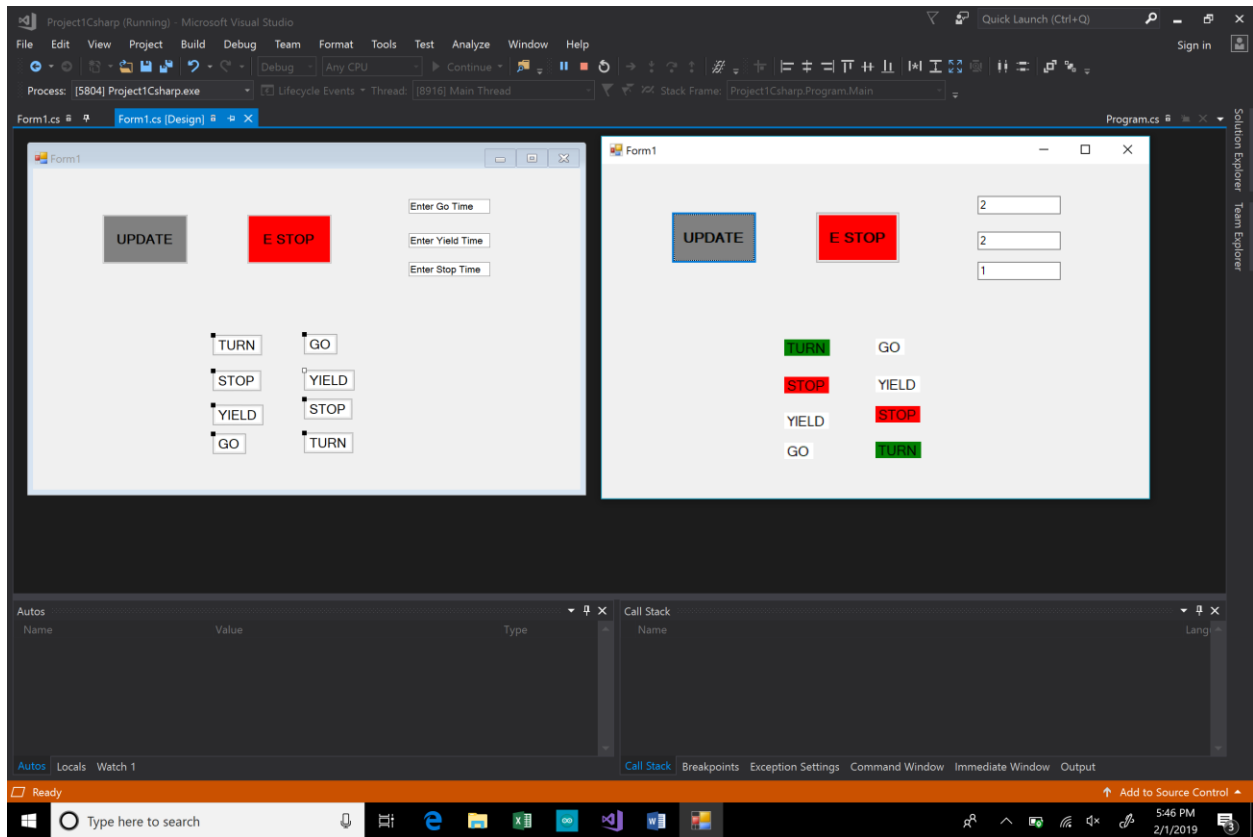


EEL4990 Project 1



```

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;
using System.IO.Ports;

namespace Project1Csharp
{
    public partial class Form1 : Form
    {
        int cat;
        int rdelay;
        int ydelay;
        int gdelay;
        int tdelay;

        SerialPort dataTx = new SerialPort();

        public Form1()
        {
            InitializeComponent();

            dataTx.BaudRate = 9600;
            dataTx.PortName = "COM3";
        }

        private async void button1_Click(object sender, EventArgs e)//this button will
update lights with new times
        {
            cat = 0;
            ydelay = int.Parse(textBox2.Text) * 1000;
            gdelay = int.Parse(textBox3.Text) * 1000;
            tdelay = int.Parse(textBox4.Text) * 1000;
            while(cat == 0)
            {
                label4.BackColor = System.Drawing.Color.Green;
                label5.BackColor = System.Drawing.Color.Green;
                label11.BackColor = System.Drawing.Color.Red;
                label18.BackColor = System.Drawing.Color.Red;
                dataTx.Open();
                dataTx.Write("t");
                dataTx.Close();
                await Task.Delay(tdelay);
                label11.BackColor = System.Drawing.Color.White;
                label18.BackColor = System.Drawing.Color.White;
                label4.BackColor = System.Drawing.Color.White;
                label5.BackColor = System.Drawing.Color.White;
                label13.BackColor = System.Drawing.Color.Green;
                label16.BackColor = System.Drawing.Color.Green;
                dataTx.Open();
                dataTx.Write("g");
                dataTx.Close();
            }
        }
    }
}

```

```

        await Task.Delay(gdelay);
        label13.BackColor = System.Drawing.Color.White;
        label16.BackColor = System.Drawing.Color.White;
        label12.BackColor = System.Drawing.Color.Yellow;
        label17.BackColor = System.Drawing.Color.Yellow;
        dataTx.Open();
        dataTx.Write("y");
        dataTx.Close();
        await Task.Delay(ydelay);
        label12.BackColor = System.Drawing.Color.White;
        label17.BackColor = System.Drawing.Color.White;
    }
}

private void button2_Click(object sender, EventArgs e)//this button will turn off
all lights
{
    dataTx.Open();

    dataTx.Write("x");

    dataTx.Close();

    cat = 1;
    label11.BackColor = System.Drawing.Color.White;
    label12.BackColor = System.Drawing.Color.White;
    label13.BackColor = System.Drawing.Color.White;
    label14.BackColor = System.Drawing.Color.White;
    label15.BackColor = System.Drawing.Color.White;
    label16.BackColor = System.Drawing.Color.White;
    label17.BackColor = System.Drawing.Color.White;
    label18.BackColor = System.Drawing.Color.White;

}

private void textBox1_TextChanged(object sender, EventArgs e)
{

}

private void textBox2_TextChanged(object sender, EventArgs e)
{

}

private void textBox3_TextChanged(object sender, EventArgs e)
{

}

private void textBox4_TextChanged(object sender, EventArgs e)
{

}

private void label16_Click(object sender, EventArgs e)
{

```

}
}
}

