## **Project Skynet**

Software Code: Project\_Skynet/FormMain.cs



분당중학교 3학년 김태욱 (2015.07~09)

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using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Ling;
using System. Text;
using System. Threading;
using System. Threading. Tasks;
using System. Windows. Forms;
using System.10.Ports;
namespace Project Skynet
   public partial class FormMain : Form
        private int CK = 0;
        private FormLoading frmLoad = null;
        private FormControl frmControl = null;
        public int z;
       public FormMain()
            InitializeComponent();
            this.hideForm();
       private void FormMain_Load(object sender, EventArgs e)
       {
           this.startLoad(); //start loading
           panel3. Visible = false;
           timer2.Enabled = true;
           btn_Disconnect.Enabled = false
           string[] Ports = SerialPort.GetPortNames();
           foreach(string port in Ports) {
               combo_PortName.Items.Add(port);
           txt_CMD.AppendText(Environment.NewLine + "S K Y N E T - V1.0")
           txt_CMD.AppendText(Environment.NewLine + "Net-Based Device Controlling
             System");
           txt_CMD.AppendText(Environment.NewLine + "This program was coded by Tyler
           txt_Serial.AppendText(Environment.NewLine + "S K Y N E T - V1.0");
           txt_Serial.AppendText(Environment.NewLine + "Net-Based Device Controlling
             System");
           txt_Serial.AppendText(Environment.NewLine + "This program was coded by
             Tyler Kim");
       private void timer1_Tick(object sender, EventArgs e)
           blackscreen();
```

```
if (CK == 0) //the very first
       this.startLoad();
       timer1.Enabled = false;
   else if (CK == 1) //after loading has completed
       this.endLoad();
       //this.Visible = true;
       timer1.Enabled = false;
   else if (CK == 2)
        Thread.Sleep(1000);
        this.frmControl = new FormControl(this); //send "this" form to control >
        frmControl.WindowState = FormWindowState.Maximized; //controls form
          control
        frmControl.Show();
        panel3. Visible = false;
        timer1.Enabled = false;
private void timer2_Tick(object sender, EventArgs e)
    txt_Date.Text = DateTime.Now.ToString("yyyy-MM-dd");
    txt_Time.Text = DateTime.Now.ToString("tt hh:mm:ss");
private\ void\ frmLoad\_frmLoad\_FormLoadProgressCompleted (\ object\ sender,
  FormLoadProgressCompletedEventArgs e)
    CK = 1;
    timer1.Interval = 1000;
    timer1.Enabled = true; //causes the form to close
    this.WindowState = FormWindowState.Maximized;
    this.FormBorderStyle = System.Windows.Forms.FormBorderStyle.None;
    //this.TopMost = true;
private void btn_Connect_Click(object sender, EventArgs e)
{
    try
        if (combo_PrgMode.Text != "" || combo_PortName.Text != "")
            blackscreen();
            btn_Connect.Enabled = false;
            panel3. Visible = true;
            pb_loading.lmage = Image.FromFile("aperture.gif");
```

```
CK = 2;
           timer1.Interval = 3000;
           timer1.Enabled = true;
           btn_Disconnect.Enabled = true;
           if (combo_PrgMode.Text == "ON")
               z = 1;
               Ib_PrgMode.Text = "ON";
           else if (combo_PrgMode.Text == "OFF")
               z = 0;
                Ib_PrgMode.Text = "OFF";
        }
       else
           MessageBox.Show("Please Set Your Programming Mode.");
   catch (Exception ex)
        redscreen();
        txt_CMD.AppendText(Environment.NewLine + "ERROR >>" + ex.Message);
}
private void btn_Disconnect_Click(object sender, EventArgs e)
    blackscreen();
    if (this.frmControl != null)
        this.frmControl.Disconn();
}
private void combo_Device_SelectedIndexChanged(object sender, EventArgs e)
    if (combo_Device.Text == "T-33")
    {
        combo_PortName.Text = "COM5";
        txt_BaudRate.Text = "57600";
    }
    else
    {
        combo_PortName.Text = "Error";
        txt_BaudRate.Text = "Error";
}
private void FormMain_MouseClick(object sender, MouseEventArgs e)
    blackscreen();
```

```
private void btn_Close_Click(object sender, EventArgs e)
    this.Close();
#region Methods
private void startLoad()
    if (this.frmLoad == null)
        frmLoad = new FormLoading();
        frmLoad.FormLoadProgressCompleted +=
          frmLoad_frmLoad_FormLoadProgressCompleted; //make it available to get >
        frmLoad.WindowState = FormWindowState.Normal;
        frmLoad.Show(); //start to load ->go to Loading form
private void endLoad()
    if (this.frmLoad != null)
        frmLoad.Close();
        frmLoad = null; //close the load form
private void hideForm()
    this.WindowState = FormWindowState.Minimized;
public void blackscreen()
     txt_CMD.BackColor = Color.Black;
     txt_Serial.BackColor = Color.Black;
public void redscreen()
     txt_CMD.BackColor = Color.Red;
     txt_Serial.BackColor = Color.Red;
 #endregion
 public void WriteCMD(string str)
     txt_CMD.AppendText(str + Environment.NewLine);
 public void ConnectWithPortName(string str)
```

```
{
    str = combo_PortName.Text;
}
public void WriteSerial(string str)
{
    txt_Serial.AppendText(DateTime.Now + ">>" + str + Environment.NewLine);
}

public int CheckPrgMode()
{
    if (combo_PrgMode.Text == "ON")
    {
        z = 1;
        return z;
    }
    else if (combo_PrgMode.Text == "OFF")
    {
        z = 0;
        return z;
    }
    else
    {
        return z;
    }
}
```