

Week7

การสื่อสารด้วย potocol

```
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.Threading;

namespace week_7_protocol
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
        }

        private void button1_Click(object sender, EventArgs e)
        {
            serialPort1.Open();
            byte[] data = { 1,0,1};
            serialPort1.Write(data,0,3);
            Thread.Sleep(100);
            int n = serialPort1.BytesToRead;
            if(n >= 3)
            {
                byte[] rx_data = new byte[n];
                serialPort1.Read(rx_data, 0, n);
                textBox1.Text = rx_data[0].ToString() + rx_data[1].ToString() +
rx_data[2].ToString();
            }
            serialPort1.Close();
        }

        private void trackBar1_Scroll(object sender, EventArgs e)
        {
        }

        private void trackBar1_ValueChanged(object sender, EventArgs e)
        {
            serialPort1.Open();
            byte[] data = { 2, (byte)trackBar1.Value,(byte)(2 + trackBar1.Value) };
            serialPort1.Write(data, 0, 3);
            Thread.Sleep(100);
            int n = serialPort1.BytesToRead;
            if (n >= 3)
            {
```


Form1

อ่านข้อมูล

202



Form1

อ่านข้อมูล

213



```
void setup()
```

```
{
```

```
  Serial.begin(9600);
```

```
  pinMode(13,OUTPUT);
```

```
  pinMode(2,INPUT);
```

```
}
```

```
void loop()
```

```
{
```

```
  if(Serial.available()>2)
```

```
  {
```

```
    byte fn = Serial.read();
```

```
    byte data = Serial.read();
```

```
    byte sum = Serial.read();
```

```
    if(fn == 1)
```

```
    {
```

```
      data = digitalRead(2);
```

```
      Serial.write(1);
```

```
      Serial.write(data);
```

```
      Serial.write(1+data);
```

```
    }
```

```
    if (fn == 2)
```

```
    {
```

```
      if(data == 1) digitalWrite(13,1);
```

```
      else digitalWrite(13,0);
```

```
Serial.write(2);  
Serial.write(data);  
Serial.write(2+data);  
}  
Serial.flush();  
}  
  
}
```