

Week7

การสื่อสารด้าน photocal

```
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_photocal
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
        }

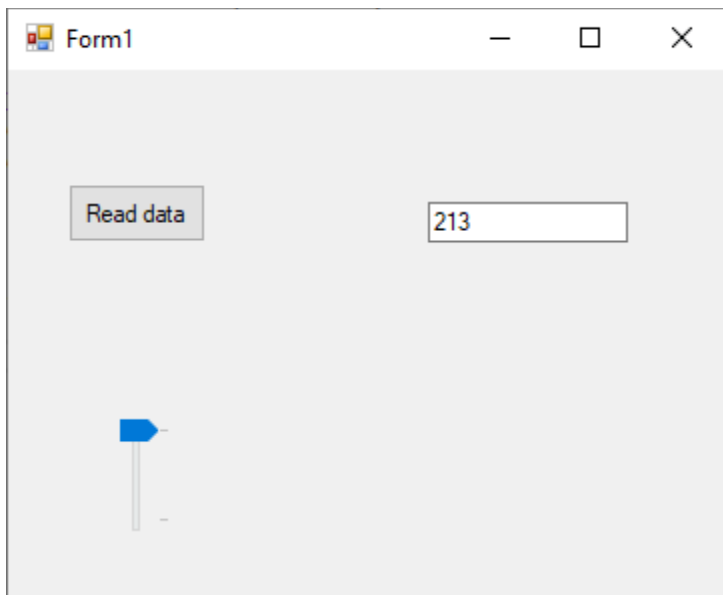
        private void button1_Click(object sender, EventArgs e)
        {
            serialPort1.Open();
            byte[] data = { 1,0,1};
            serialPort1.Write(data,0,3);
            Thread.Sleep(100);
            int n = serialPort1.BytesToRead;
            if (n >= 3)
            {
                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();
        }

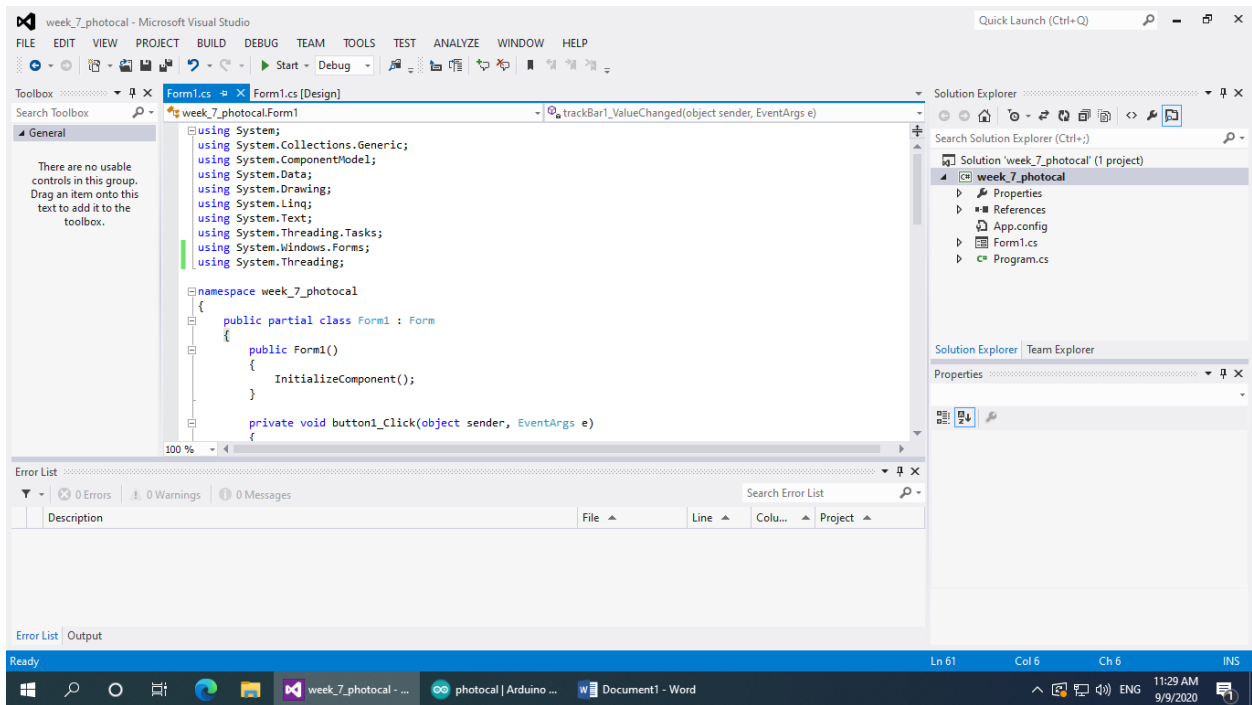
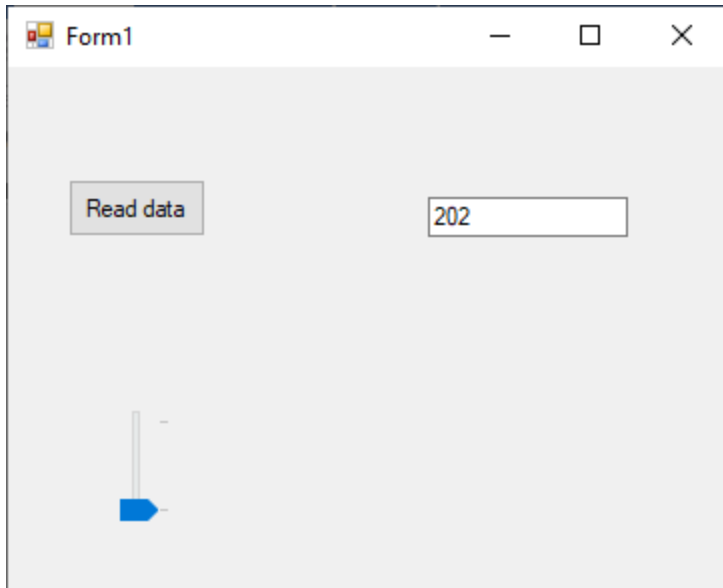
        private void trackBar1_Scroll(object sender, EventArgs e)
        {
        }
    }
}
```

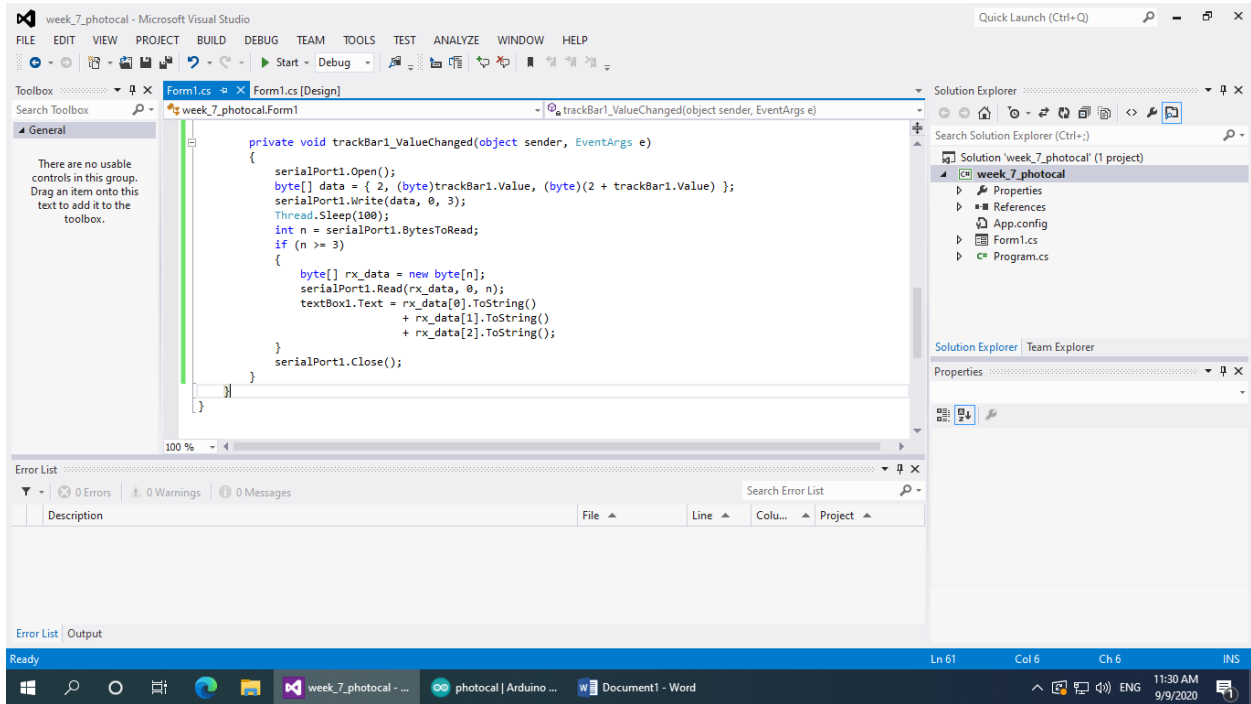
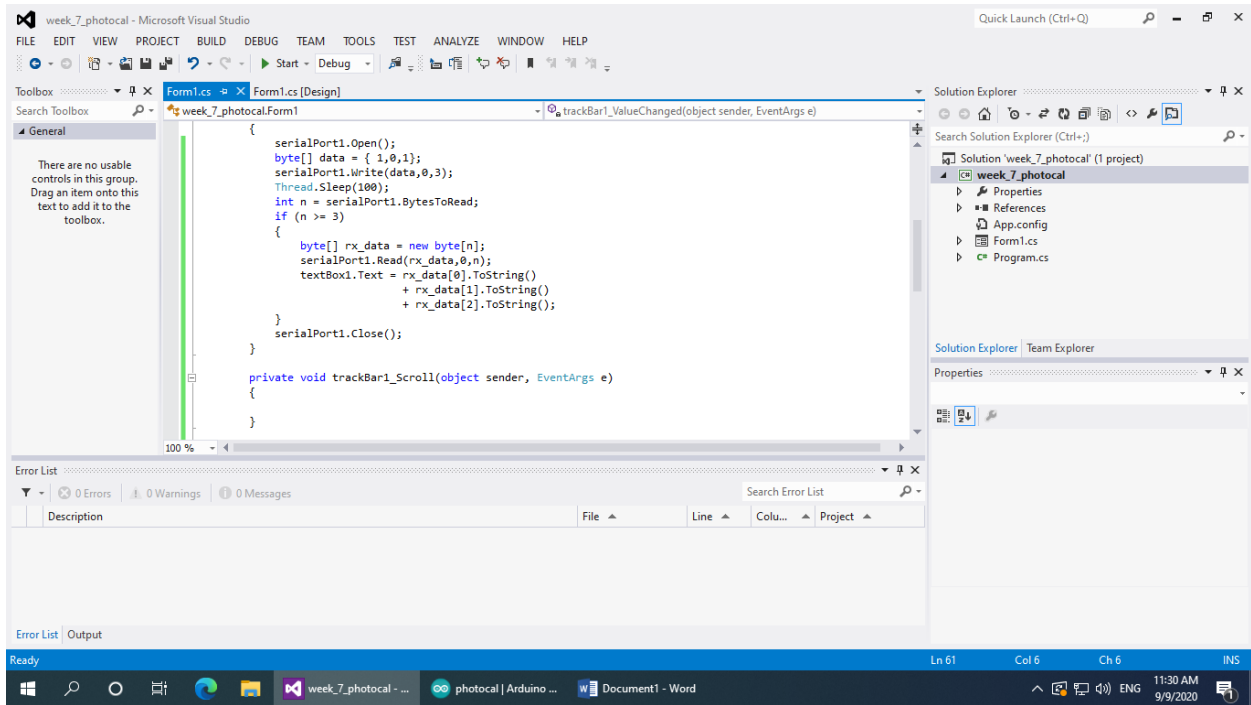
```

e) private void trackBar1_ValueChanged(object sender, EventArgs
    {
        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)
        {
            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();
    }
}
}

```







```
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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);
    }
  }
}

Done uploading.
Invalid library found in C:\Users\FIFA_LAB07\Documents\Arduino\libraries\sketch_aug20d: no headers files (.h) found in C:\Users\FIFA_LAB07\Documents\Arduino\libraries\sketch_aug20d
Invalid library found in C:\Users\FIFA_LAB07\Documents\Arduino\libraries\sketch_sep02a: no headers files (.h) found in C:\Users\FIFA_LAB07\Documents\Arduino\libraries\sketch_sep02a
Invalid library found in C:\Users\FIFA_LAB07\Documents\Arduino\libraries\sketch_sep03a: no headers files (.h) found in C:\Users\FIFA_LAB07\Documents\Arduino\libraries\sketch_sep03a
```

```
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}

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();
  }
}

Done uploading.
Invalid library found in C:\Users\FIFA_LAB07\Documents\Arduino\libraries\sketch_aug20d: no headers files (.h) found in C:\Users\FIFA_LAB07\Documents\Arduino\libraries\sketch_aug20d
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Invalid library found in C:\Users\FIFA_LAB07\Documents\Arduino\libraries\sketch_sep03a: no headers files (.h) found in C:\Users\FIFA_LAB07\Documents\Arduino\libraries\sketch_sep03a
```

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void setup()
{
  Serial.begin(9600);
  pinMode(13,OUTPUT);
  pinMode(2,INPUT);
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}
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```
void loop()
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{
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  if(Serial.available(>2)
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  {
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    byte fn = Serial.read();
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    byte data = Serial.read();
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    byte sum = Serial.read();
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    if(fn == 1)
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    {
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      data = digitalRead(2);
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```
      Serial.write(1);
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      Serial.write(data);
```

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

```
    }
```

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

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

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

```
      Serial.write(2);
```

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

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

```
    }
```

```
    Serial.flush();
```

```
  }
```

}