

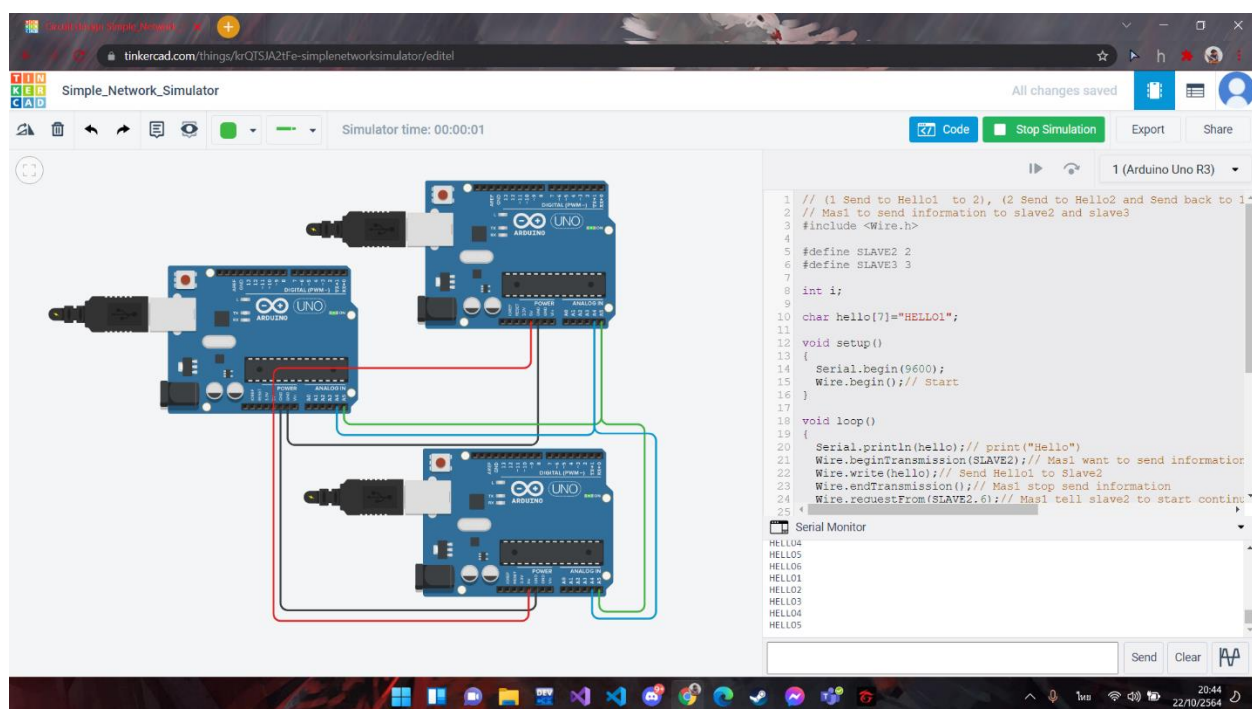
Assignment #6

ชื่อกลุ่ม : ฟ้ายรักพอ

สมาชิกในกลุ่ม : 64010270 นายคณพัฒน์ โพธิ์น้อย

64010315 นายธนธร แดงอ่อน

รูปถ่ายชิ้นงาน



```

// (1 Send to Hello1 to 2), (2 Send to Hello2 and Send
back to 1), (1 Send Hello2 to 3), (3 Send Hello3 Send
back to 1)
// Mas1 to send information to slave2 and slave3
#include <Wire.h>

#define SLAVE2 2
#define SLAVE3 3

int i;

char hello[7] = "HELLO1";

void setup()
{
  Serial.begin(9600);
  Wire.begin();// Start
}

void loop()
{
  Serial.println(hello);// print("Hello")
  Wire.beginTransmission(SLAVE2);// Mas1 want to send
information to Slave2
  Wire.write(hello);// Send Hello1 to Slave2
  Wire.endTransmission();// Mas1 stop send information
  Wire.requestFrom(SLAVE2, 6); // Mas1 tell slave2 to
start continue send information
  for (int i = 0; Wire.available(); i++) // Mas1 and
Slave2 check condition
  {
    hello[i] = Wire.read();// Read information from
receive buffer
  }
  delay(500);
}

```

```
Serial.println(hello); // print("Hello2")
Wire.beginTransmission(SLAVE3); // Mas1 want to send
information to Slave3
Wire.write(hello); // Send Hello2 to Slave3
Wire.endTransmission(); // Mas1 stop send information
Wire.requestFrom(SLAVE3, 6); // Mas1 tell Slave3 start
send information
for (i = 0; Wire.available(); i++) // Mas1 and Slave3
check condition
{
    hello[i] = Wire.read(); // Read information from
receive buffer
}
}
```

```

// Slave2 send back to Master1
#include <Wire.h>

#define SLAVE2 2
#define SLAVE3 3

int i;

char hello[7];

void setup()
{
  Serial.begin(9600);
  Wire.begin(SLAVE2); // Start at Slave2
  Wire.onReceive(getHELLO); // When Slave2 receive
information from Mas1
  Wire.onRequest(sentHELLO); // When Slave2 request
information from Mas1
}

void loop()
{
  delay(100);
}

void getHELLO(int bytes)
{
  for (i = 0; i < bytes; i++)
  {
    hello[i] = Wire.read();
  }
  if (hello[5] < '9') // Loop Hello1 - Hello9
  {
    hello[5]++;
  }
}

```

```
else
{
    hello[5] = '1';
}
}

void sentHELLO()
{
    Wire.write(hello);
    Serial.println(hello);
}
```

```

// Slave3 send back to Mas1
#include <Wire.h>

#define SLAVE2 2
#define SLAVE3 3

int i;

char hello[7];

void setup()
{
    Serial.begin(9600);
    Wire.begin(SLAVE3); // Start use Slave3
    Wire.onReceive(getHELLO); // When Slave3 receive
information from Mas1
    Wire.onRequest(sentHELLO); // When Slave3 request
information from Mas1
}

void loop()
{
    delay(100);
}

void getHELLO(int bytes)
{
    for (i = 0 ; i < bytes ; i++)
    {
        hello[i] = Wire.read();
    }
    if (hello[5] < '9') // Loop Hello1 - Hello9
    {
        hello[5]++;
    }
}

```

```
else
{
    hello[5] = '1';
}
}

void sentHELLO()
{
    Wire.write(hello);
    Serial.println(hello);
}
```