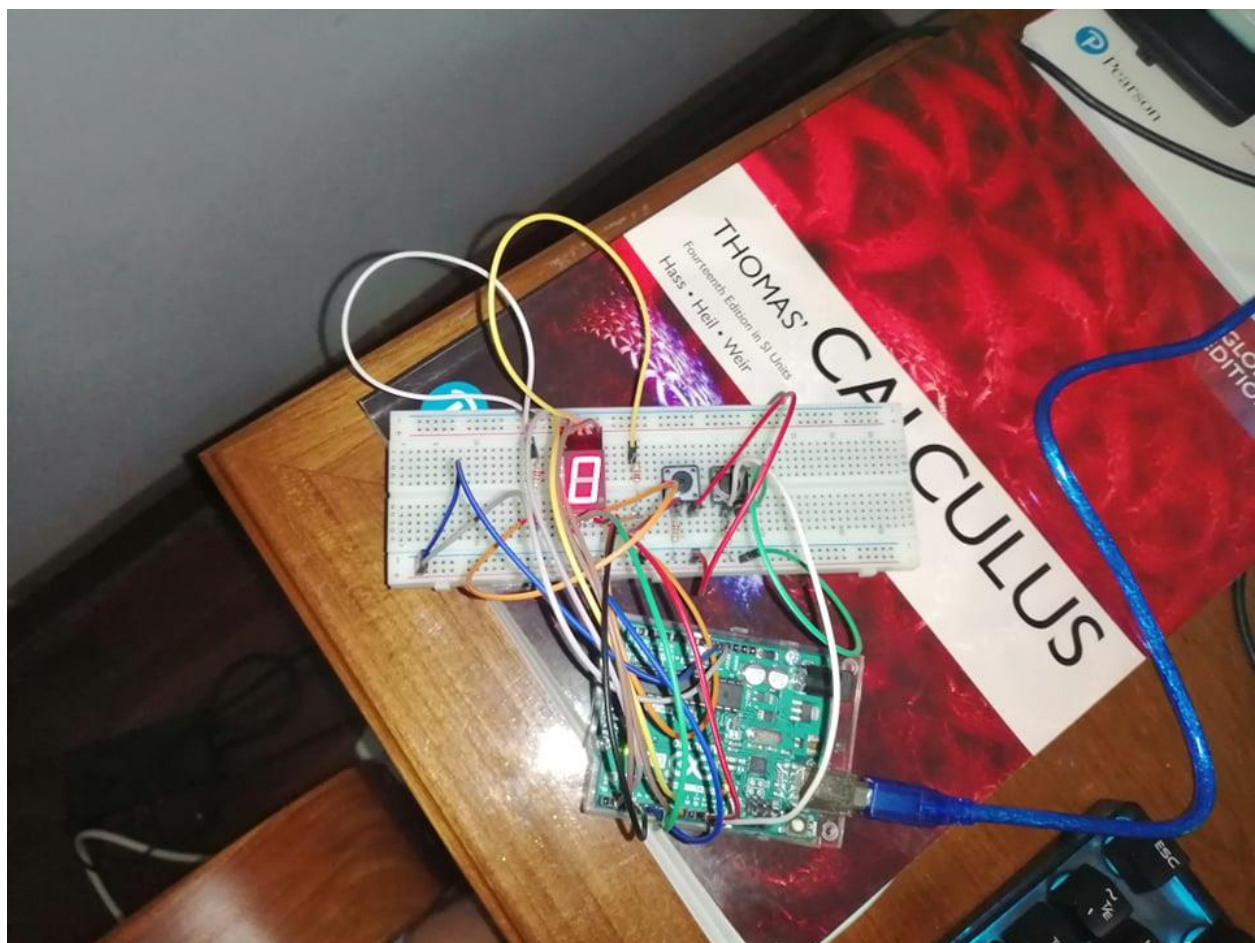# Assignment #3

ชื่อกลุ่ม : ฟ้ารักพ่อ

สมาชิกในกลุ่ม : 64010270 นายดลพัฒน์ โพธิ์น้อย

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รูปถ่ายชิ้นงาน

```cpp
//                     1,     2,     3,     4,     5,
6,     7,     8,     9,     0,     G,     L,
int num[48] = {0xF3, 0x49, 0x61, 0x33, 0x25, 0x05,
0xB1, 0x01, 0x21, 0x81, 0x85, 0x8F};
int a = 1;
int b = 2;
int c = 3;
int d = 4;
int e = 5;
int f = 6;
int g = 7;
int i = 0;

int randomNum;

int button_no1 = 10;
int button_no2 = 11;

int buttonState_1;
int buttonState_2;

int lastButtonState_1 = LOW;
int lastButtonState_2 = LOW;

long lastDebounceTime_1 = 0;
long lastDebounceTime_2 = 0;

void setup()
{
```

```
  pinMode(button_no1, INPUT_PULLUP);
  pinMode(button_no2, INPUT_PULLUP);
  DDRD = 0xFF; // DDRD is port D read input and
wirte input are input or output 0xFF is port 0-7
  PORTD = num[i]; // PORTD is similar of DDRD but
it write what pin is 0 or 1
  randomNum = random(1, 9); // random number(1,9)
}

void loop()
{
  int reading_1 = digitalRead(button_no1);
  int reading_2 = digitalRead(button_no2);

  // button_no1 (INPUT_PULLUP)
  if (reading_1 != lastButtonState_1)
  {
    lastDebounceTime_1 = millis();
  }
  if (millis() - lastDebounceTime_1 > 50)
  {
    if (reading_1 != buttonState_1)
    {
      buttonState_1 = reading_1;

      if (buttonState_1 == LOW)
      {
        if (i == 9)
        {
```

```
                    i = 0;
            }
            PORTD = num[i];
            i++;
        }
    }
}


// button_no2 (INPUT_PULLUP)
if (reading_2 != lastButtonState_2)
{
    lastDebounceTime_2 = millis();
}
if (millis() - lastDebounceTime_2 > 50)
{
    if (reading_2 != buttonState_2)
    {
        buttonState_2 = reading_2;

        if (buttonState_2 == LOW)
        {

            if (i == randomNum)
            {
                PORTD = num[9];
                randomNum = random(1, 9);
                i = 0;
            }
            else if (i < randomNum)
```

```
                {
                    PORTD = num[11];
                }
                else if (i > randomNum)
                {
                    PORTD = num[10];
                }
            }
        }
    }

    lastButtonState_1 = reading_1;
    lastButtonState_2 = reading_2;
}
```