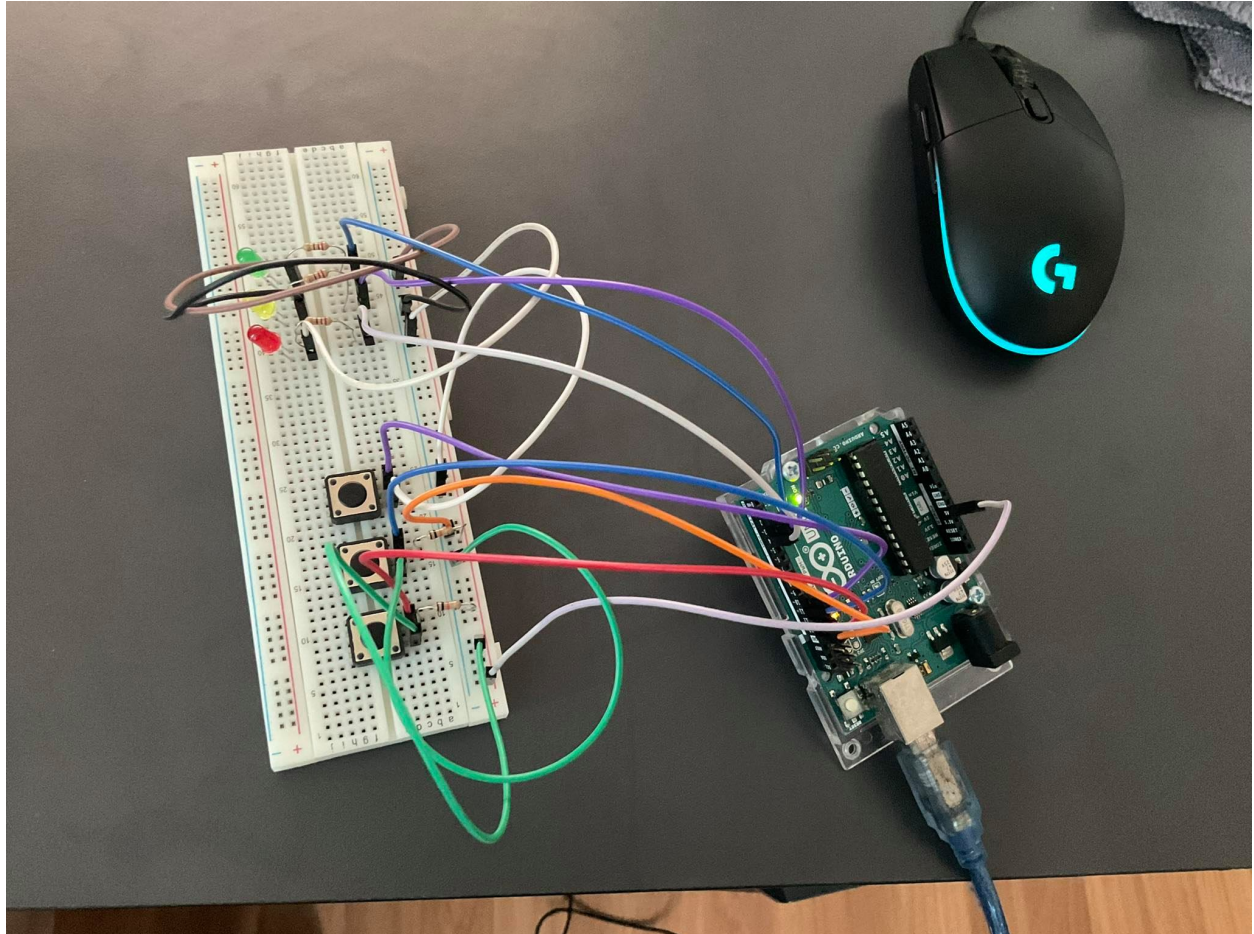


Assignment #2

อาตุอมองอาเห็น

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```

#define button1 12 // switch input Active Low
#define button2 11
#define button3 10
#define ledR 4
#define ledY 3
#define ledG 2
long timeledR = 0;
long timeledG = 0;
long timeledY = 0;
int count = 10;
void setup()
{
    Serial.begin(9600);

    pinMode(ledR,OUTPUT);
    pinMode(ledY,OUTPUT);
    pinMode(ledG,OUTPUT);
    pinMode(button1,INPUT);
    pinMode(button2,INPUT);
    pinMode(button3,INPUT_PULLUP);
}

void loop()
{
    // ledR
    if (digitalRead(button1) == HIGH && millis() - timeledR >= 250)
    {
        timeledR = millis();
        if (digitalRead(ledR) == LOW)
        {
            digitalWrite(ledR, HIGH);
        }
        else if (digitalRead(ledR) == HIGH)
        {
            digitalWrite(ledR, LOW);
        }
    }
    if (digitalRead(button1) == LOW)
    {
        if (millis() - timeledR >= 3000)
        {
            digitalWrite(ledR, LOW);
        }
    }
    // ledG
    if (digitalRead(button3) == LOW && millis() - timeledG >= 250 && digitalRead(ledR) != HIGH)
    {
        timeledG = millis();
        if (digitalRead(ledG) == LOW)
        {
            digitalWrite(ledG, HIGH);
        }
        else if (digitalRead(ledG) == HIGH)

```

```

    {
        digitalWrite(ledG, LOW);
    }
}
if (digitalRead(button3) == HIGH)
{
    if (millis() - timeledG >= 3000)
    {
        digitalWrite(ledG, LOW);
    }
}
// ledY
if (digitalRead(button2) == LOW && millis() - timeledY >= 250 && digitalRead(ledR) != HIGH &&
digitalRead(ledG) != HIGH)
{
    count = 0;
}
else if (count < 4)
{
    if (millis() - timeledY >= 500)
    {
        if (digitalRead(ledY) == LOW)
        {
            Serial.println("LED tid");
            digitalWrite(ledY, HIGH);
        }
        else if (digitalRead(ledY) == HIGH)
        {
            Serial.println("LED dob");
            digitalWrite(ledY, LOW);
        }
        timeledY = millis();
        count++;
    }
}
if (count > 4)
{
    // Serial.println("LEDY turnOFF");
    digitalWrite(ledY, LOW);
}
}

```