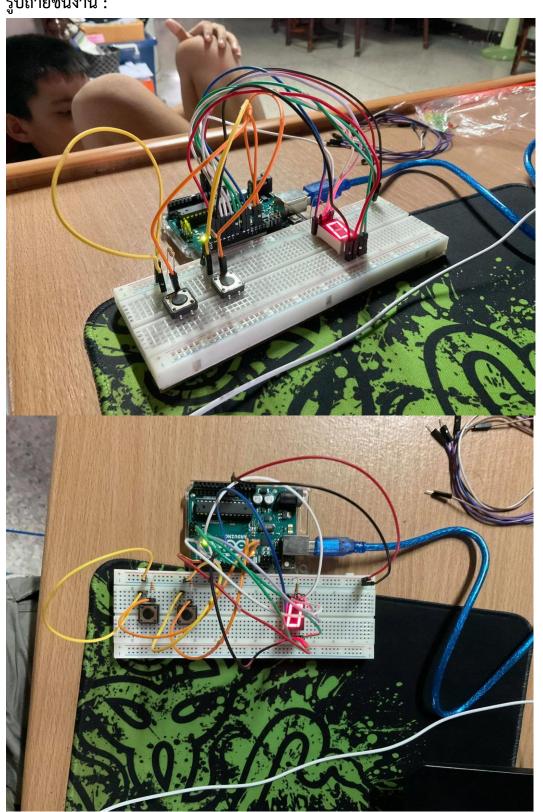
## Assignment 3

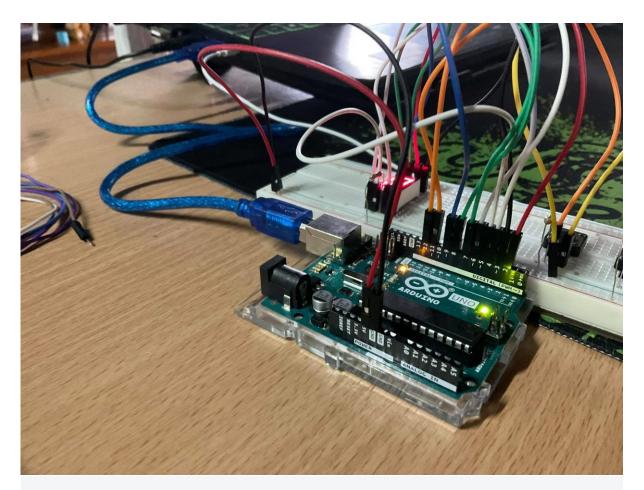
**ชื่อกลุ่ม :** 9 A.M.

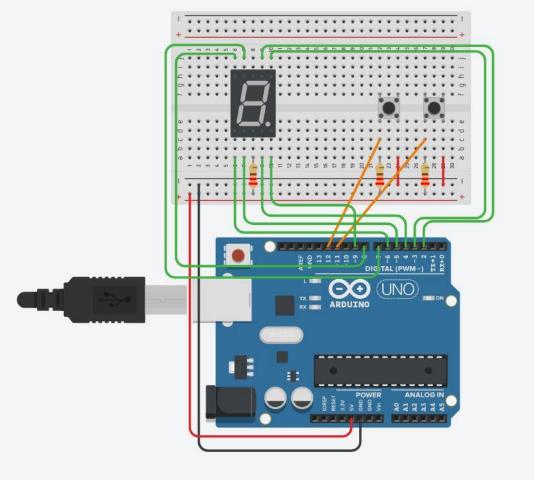
สมาชิกกลุ่ม : 64010761 นายวรพล รังษี

64010757 นายวรโชติ ใจเร็ว

## รูปถ่ายชิ้นงาน :







บรรทัด	Code
1	//[9] for handle display of number 1,2,,9
2	//[7] for 1,0 of each segment
3	boolean handle_led [9][7] = {
4	1, 0, 0, 1, 1, 1
5	, 0, 0, 1, 0, 0, 1, 0
6	, 0, 0, 0, 0, 1, 1, 0
7	, 1, 0, 0, 1, 1, 0, 0
8	, 0, 1, 0, 0, 1, 0, 0
9	, 0, 1, 0, 0, 0, 0
10	, 0, 0, 0, 1, 1, 0, 1
11	, 0, 0, 0, 0, 0, 0
12	, 0, 0, 0, 0, 1, 0, 0
13	<b>}</b> ;
14	//define button
15	int btn_a, btn_b;
16	
17	//row : [0] = equal,[1] = greater , [2] = less
18	boolean compare_led [3][7] = {
19	0, 0, 0, 0, 0, 1
20	, 1, 1, 1, 0, 0, 0, 1
21	, 0, 1, 0, 0, 0, 1
22	};
23	
24	int random_value;
25	
26	void setup() {
27	Serial.begin(9600);
28	//for 7 segment

```
29
           pinMode(2, OUTPUT);
30
           pinMode(3, OUTPUT);
31
           pinMode(4, OUTPUT);
32
           pinMode(5, OUTPUT);
33
           pinMode(6, OUTPUT);
34
           pinMode(7, OUTPUT);
35
           pinMode(8, OUTPUT);
36
           pinMode(9, OUTPUT);
37
           //for button
38
39
           pinMode(12, INPUT); //button-A(pull down is 0 if not pressed)
40
           pinMode(11, INPUT); //button-B(pull down is 0 if not pressed)
41
           //for randomseed
42
43
           randomSeed(analogRead(A0));
           random value = random(1, 10);
44
45
46
           //segment start
47
           for (int i = 2; i <= 9; i++) {
48
            digitalWrite(i, 1);
49
           }
50
          }
51
52
          //for count number in segment
53
          int count = 0;
54
55
          void loop() {
56
           //show led number 0 to 9 when press button-A
57
           btn a = digitalRead(12);
```

```
58
            btn b = digitalRead(11);
59
            if (btn a == 0)
60
            {
61
             /* for(int i=0 ; i<=8 ; i++)
62
63
                  {
64
                   display led(i);
                  }
65
66
             */
             if (count == 9) {
67
               count = 0;
68
69
             }
             display_led(count);
70
             count += 1;
71
            }
72
73
            if (btn b == 0)
74
            {
75
             //will get random value later....
76
77
             Serial.print("Random = ");
78
             Serial.print(random value);
79
             Serial.print(" Count = ");
80
             Serial.println(count);
81
             delay(100);
82
83
             //ทายถูกเฉย!!
84
             if (random value == (count)) {
85
86
```

```
Serial.print("random value equal segment of number = ");
87
88
               Serial.println(random value);
               display compare(0);
89
90
               count = 0;
               random_value = random(1, 10);
91
               delay(100);
92
              }
93
             //ทายแล้ว ได้มากกว่า เลขของsegment
94
              else if (random value > (count)) {
95
               display_compare(1);
96
               delay(100);
97
98
              }
             //ทายแล้ว ได้น้อยกว่า เลขของsegment
99
              else if (random value < (count)) {
100
               display compare(2);
101
               delay(100);
102
             }
103
104
            }
105
           }
106
           void display led(int n)
107
108
109
            for (int i = 2; i <= 8; i++) {
110
111
              digitalWrite(i, handle led [n][i - 2]);
            }
112
            delay(100);
113
114
           }
115
```

```
void display_compare(int m)
116
117
            for (int i = 2; i \le 8; i++)
118
            {
119
             digitalWrite(i , compare_led [m][i - 2]);
120
            }
121
            delay(100);
122
          }
123
124
```