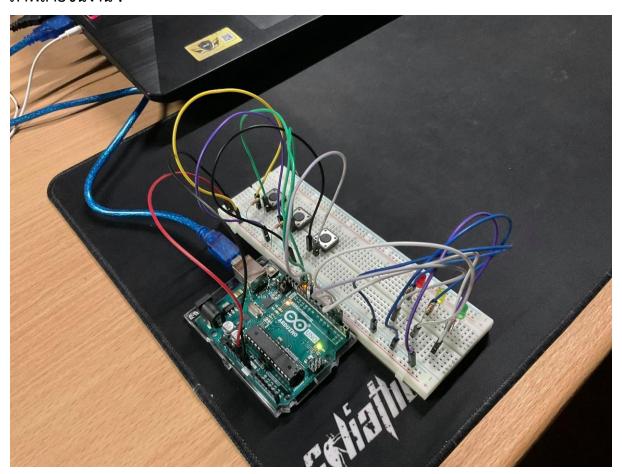
Assignment 2

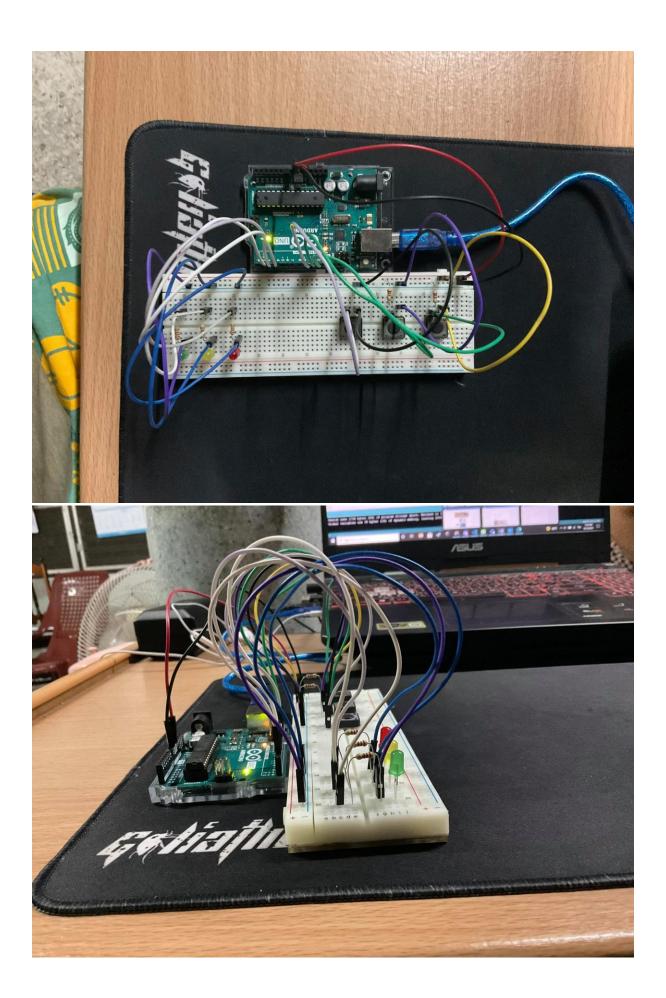
ชื่อกลุ่ม : 9 A.M.

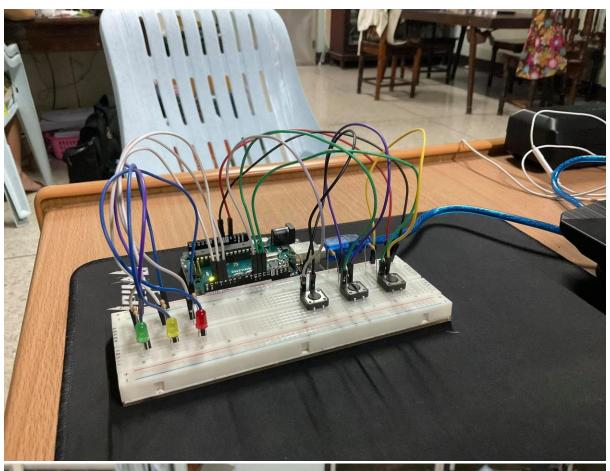
สมาชิกกลุ่ม : 64010761 นายวรพล รังษี

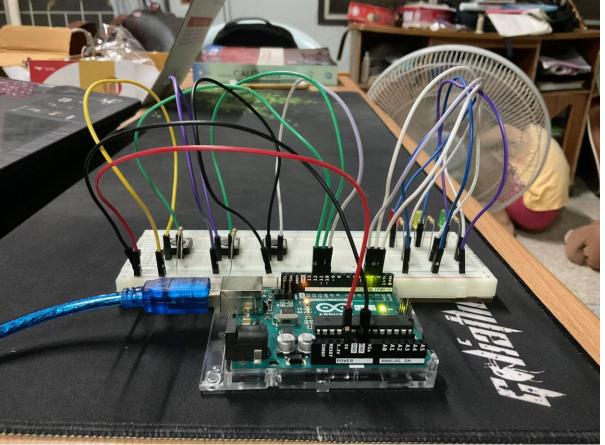
: 64010757 นายวรโชติ ใจเร็ว

ภาพถ่ายชิ้นงาน :









```
บรรทัด
                                        Code
  1
       // C++ code
  2
       int red;
  3
       int yellow;
  4
       int green;
  5
  6
       long redtime, greentime;
  7
  8
       int stage = LOW, stage g = LOW;
  9
       int pre red = LOW, pre green = HIGH;
 10
       long debounce = 250, time = 0, time g = 0;
 11
 12
       void setup()
 13
 14
         pinMode(2, OUTPUT);
 15
         pinMode(3, OUTPUT);
 16
 17
         pinMode(4, OUTPUT);
 18
         pinMode(12, INPUT);
         pinMode(11, INPUT);
 19
         pinMode(10, INPUT PULLUP);
 20
 21
       }
 22
       void loop()
 23
 24
 25
         red = digitalRead(12);
         yellow = digitalRead(11);
 26
 27
         green = digitalRead(10);
 28
```

```
29
       if (red == HIGH && pre red == LOW && millis() - time > debounce)
30
       {
31
         redtime = millis();
        if (stage == LOW)
32
33
          stage = HIGH;
34
         else
35
          stage = LOW;
36
        time = millis();
37
        digitalWrite(4, stage);
38
       }
       pre red = red;
39
40
41
       if (millis() == redtime + 3000)
       {
42
         stage = LOW;
43
        digitalWrite(4, stage);
44
45
       }
46
       if (green == LOW && pre green == HIGH && stage == LOW && millis() -
47
      time g > debounce)
48
49
       {
50
         greentime = millis();
         if (stage g == LOW)
51
          stage g = HIGH;
52
53
         else
54
          stage g = LOW;
        time g = millis();
55
         digitalWrite(2, stage g);
56
57
       }
```

```
58
       pre_green = green;
       if (millis() == greentime + 3000)
59
60
61
         stage g = LOW;
62
        digitalWrite(2, stage_g);
63
       }
64
65
       if (yellow == LOW && stage_g == LOW && stage == LOW)
66
       {
67
         for (int i = 1; i \le 4; i++) {
68
          digitalWrite(3, HIGH);
69
          delay(250);
70
          digitalWrite(3, LOW);
71
          delay(250);
72
        }
73
       }
74
75
```