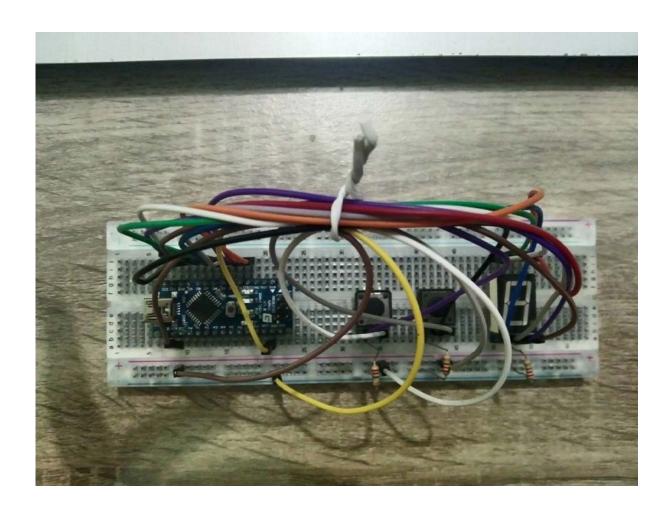
Assignment 3

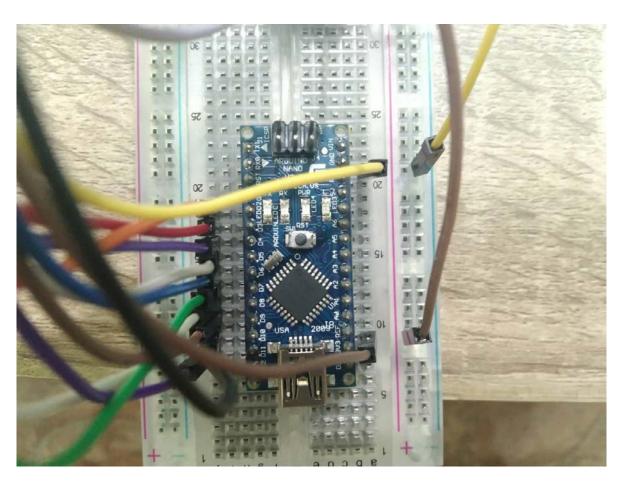
กลุ่ม ขอบตาดำ ไปก่อนละกัน

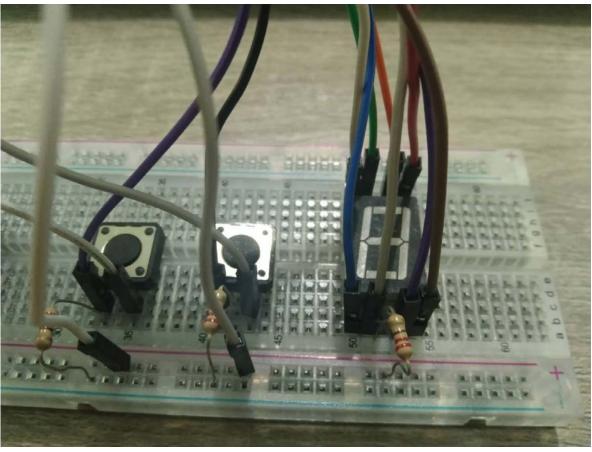
สมาชิก 1. นางสาวธัญชนก จรุงพัฒนานนท์ 64010259

2. นายธนทัต จงกิตติสกุล 64010312

รูปถ่ายชิ้นงาน







```
Source Code
```

```
int bitPattern [10] = {B11000000, B11111001, B10100100, B10110000,
B10011001, B10010010, B10000010, B11011000, B10000000, B10010000);
const byte numPins = 8;
const int segmentPins[8] = {2, 3, 4, 5, 6, 7, 8, 9};
int a = 1;
int b = 0;
int b2 = 0;
int randomNo;
void setup()
{
 for (int i = 0; i < numPins; i++)
  pinMode(segmentPins[i], OUTPUT);
 pinMode(10, INPUT);
 pinMode(11, INPUT);
 randomSeed(analogRead(A0));
 randomNo = random(1, 10); }
```

```
void loop()
{
 int ck = digitalRead(10);
 boolean isBitSet;
 if (ck == 1 \&\& b == 0)
 {
  b = 1;
   a++;
 }
 else if (ck == 0) b = 0;
 if (a == 10) a = 1;
 for (int segment = 0; segment < 8; segment++)</pre>
 {
  isBitSet = bitRead(bitPattern[a], segment);
  digitalWrite(segmentPins[segment], isBitSet);
 }
 watt();
}
```

```
void watt()
{
 boolean isBit;
 boolean SetisBit;
 int ck2 = digitalRead(11);
 if (ck2 == 1 \&\& b2 == 0)
 {
  b2 = 1;
  if (a == randomNo)
  {
    a = 0;
    randomNo = random(1, 10);
  }
  else if (a > randomNo)
  {
    int g = B11000010;
    for (int segment = 0; segment < 8; segment++)</pre>
    {
     isBit = bitRead(g, segment);
     digitalWrite(segmentPins[segment], isBit);
```

```
}
    delay(1000);
  }
  else if (a < randomNo)
  {
    int l = B11000111;
    for (int segment = 0; segment < 8; segment++)</pre>
    {
     SetisBit = bitRead(l, segment);
     digitalWrite(segmentPins[segment], SetisBit);
    }
    delay(1000);
  }
 }
 else if (ck2 == 0) b2 = 0;
}
```