
내가 만든 자동차

모터로 움직이기

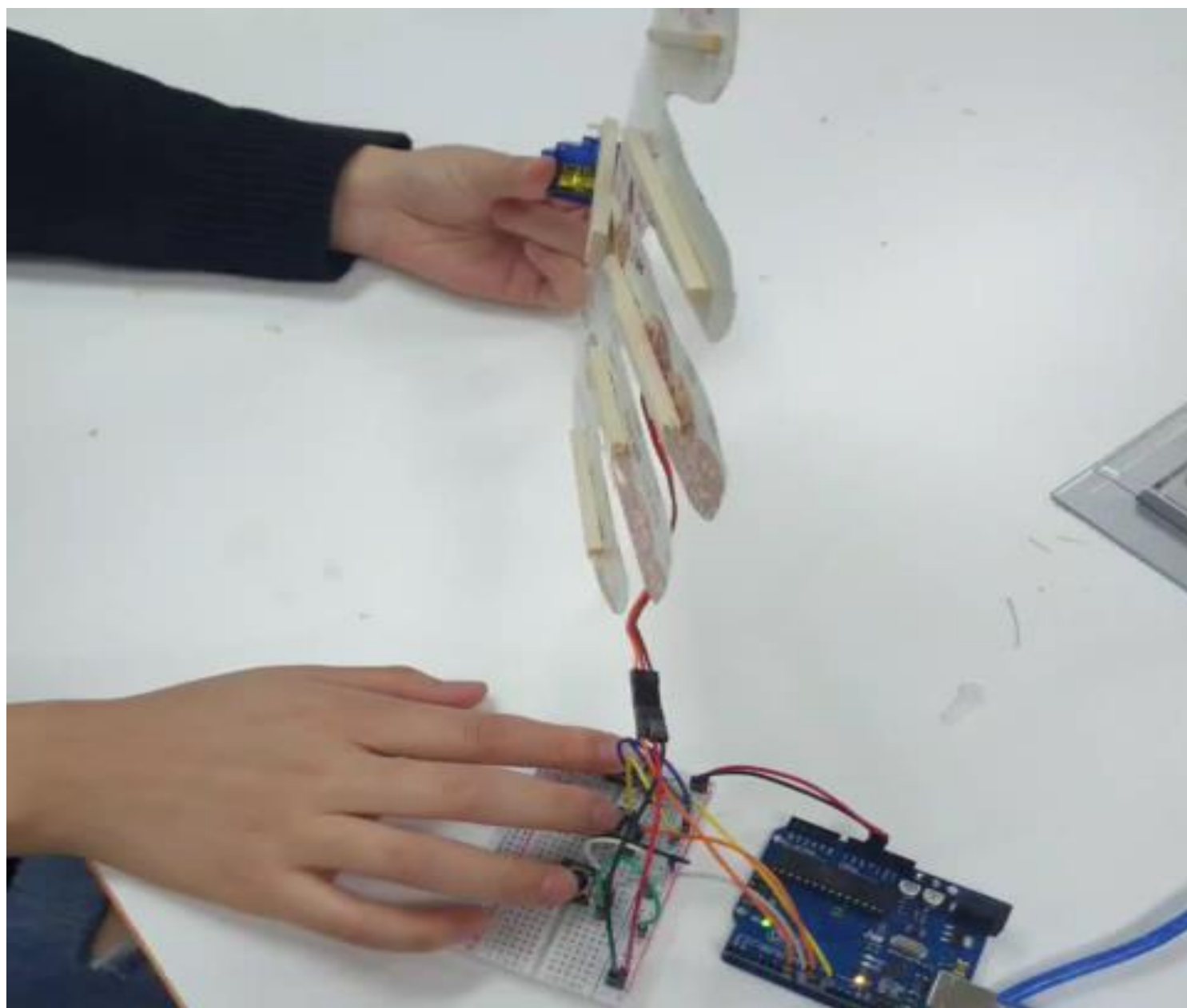


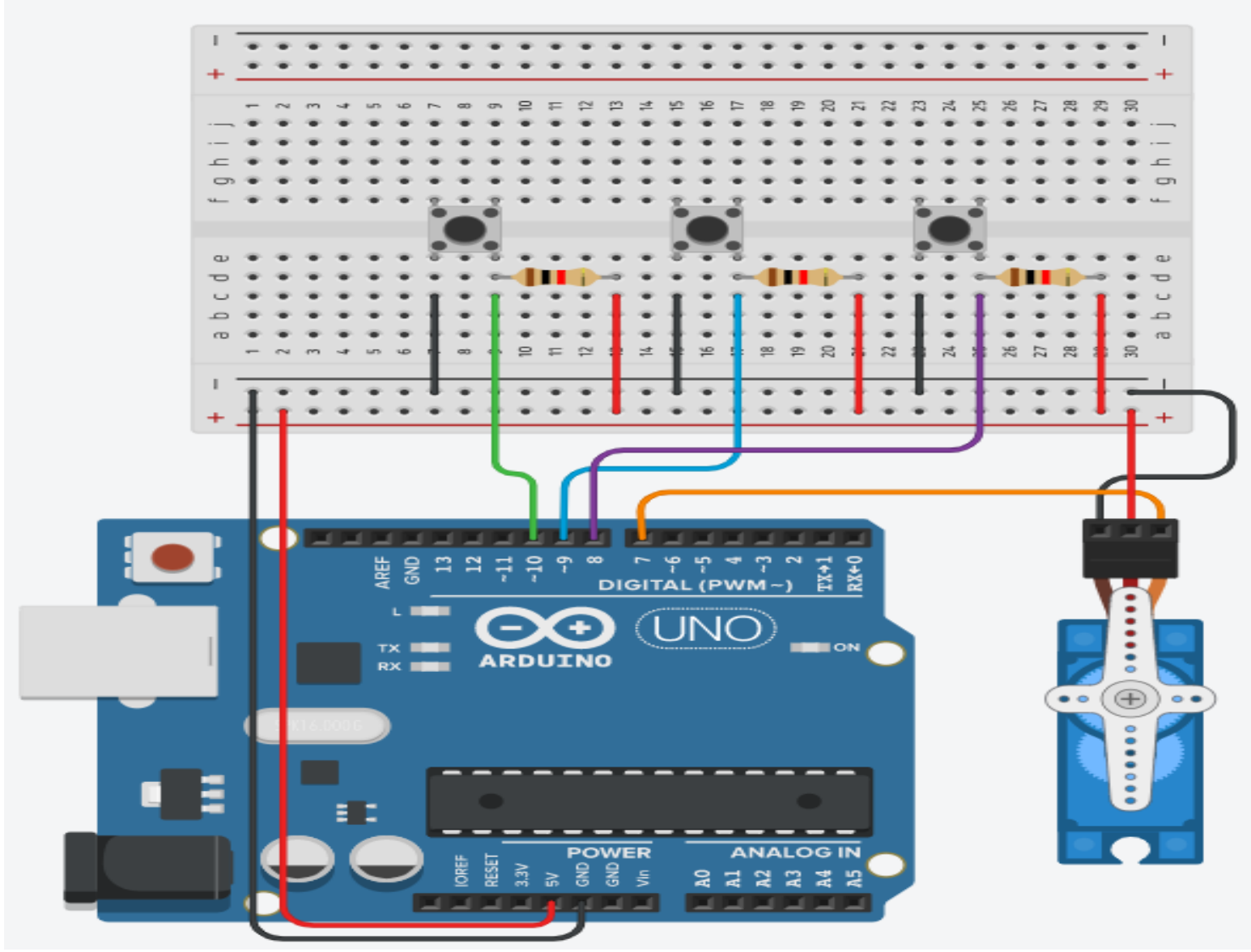


주황색(황색 or 흰색) : 데이터 핀
빨간색 : VCC 5V
갈색(검은색) : GND



모터로 하는 참참참 게임





```
#include<Servo.h>  
Servo servo;  
  
void setup() {  
  pinMode(8, INPUT);  
  pinMode(9, INPUT);  
  pinMode(10, INPUT);  
  servo.attach(7);  
}
```

```
void loop() {  
  
  int angle;  
  
  if(digitalRead(8) == LOW) {  
    servo.write(20);  
  }  
  else if(digitalRead(9) == LOW) {  
    servo.write(90);  
  }  
  else if(digitalRead(10) == LOW) {  
    servo.write(170);  
  }  
}
```

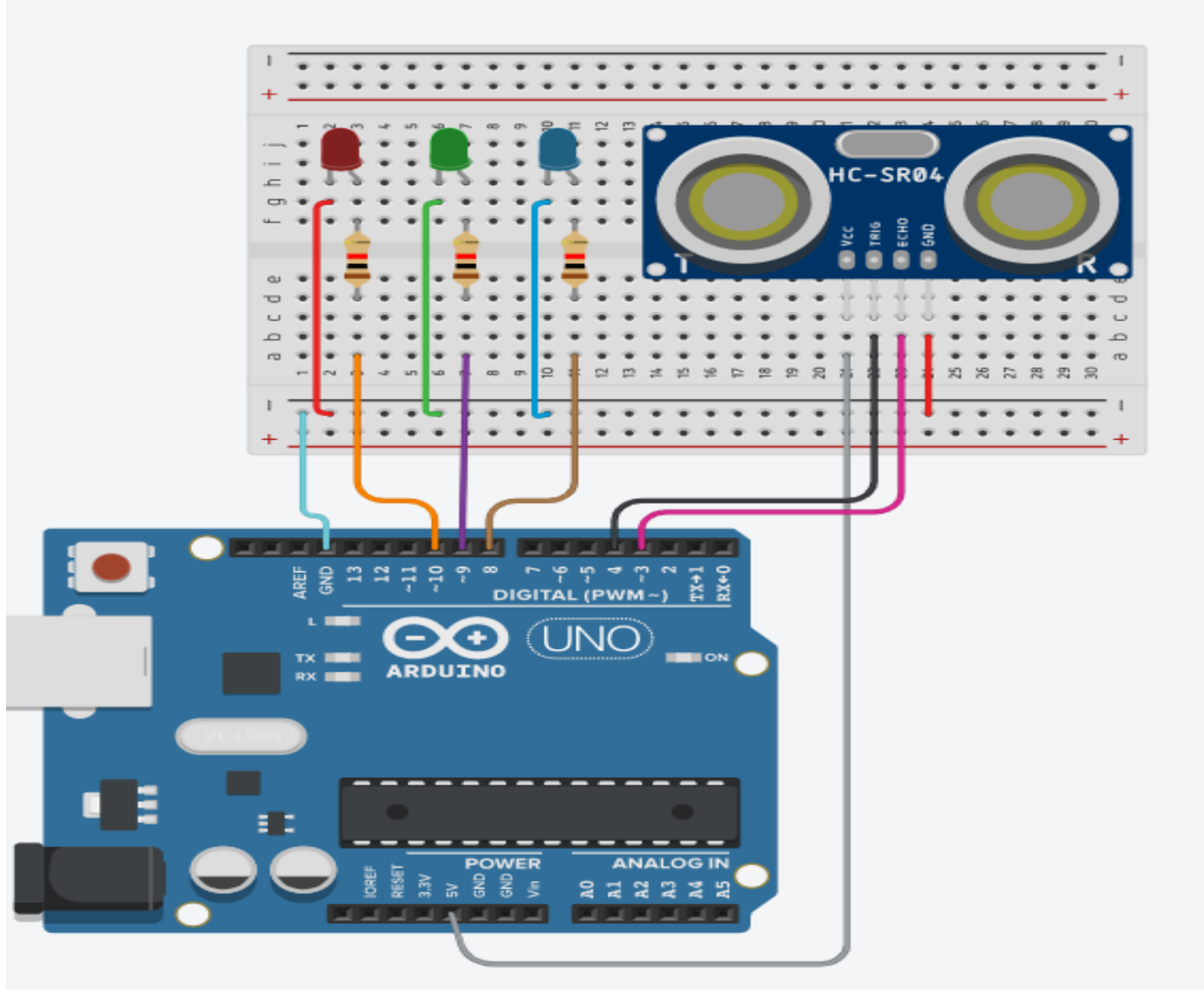

초음파로 거리 측정하기



5V

숫자핀

-



4번을 trig, 3번을 echo, 8, 9, 10을 LED

```
void setup()
{
  pinMode(4, OUTPUT); //trig
  pinMode(3, INPUT);  //echo

  pinMode(8, OUTPUT);
  pinMode(9, OUTPUT);
  pinMode(10, OUTPUT);
}

void loop()
{
  digitalWrite(4, HIGH);
  delayMicroseconds(10);
  digitalWrite(4, LOW);
  //초음파 발사
```

```
//물체까지의 시간
int duration = pulseIn(3, HIGH);

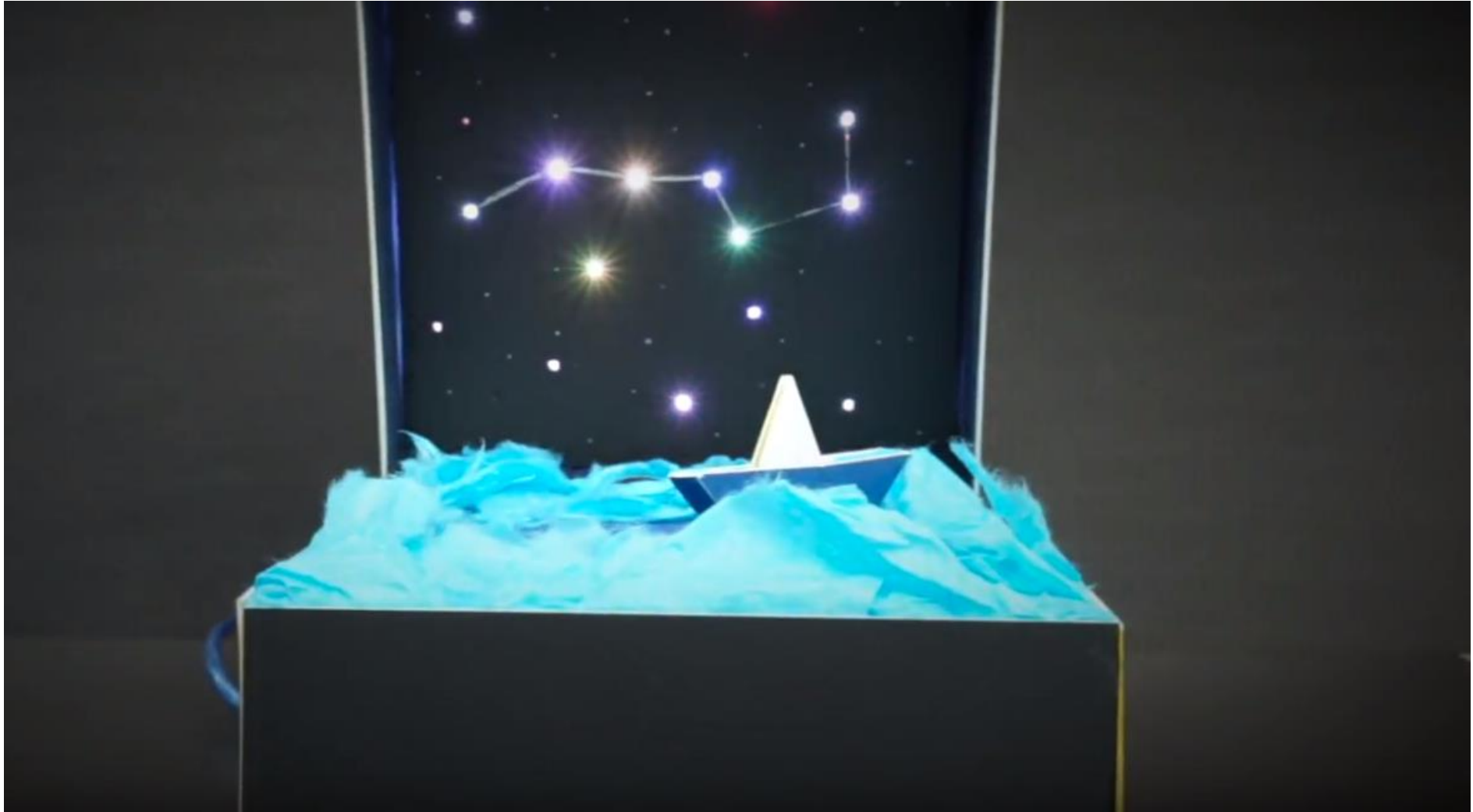
//시간을 cm단위로 바꾼다.
int dis = duration / 29 / 2;

if(dis<20)    digitalWrite(10, HIGH);
else          digitalWrite(10, LOW);
if(dis<15)    digitalWrite(9, HIGH);
else          digitalWrite(9, LOW);
if(dis<10)    digitalWrite(8, HIGH);
else          digitalWrite(8, LOW);

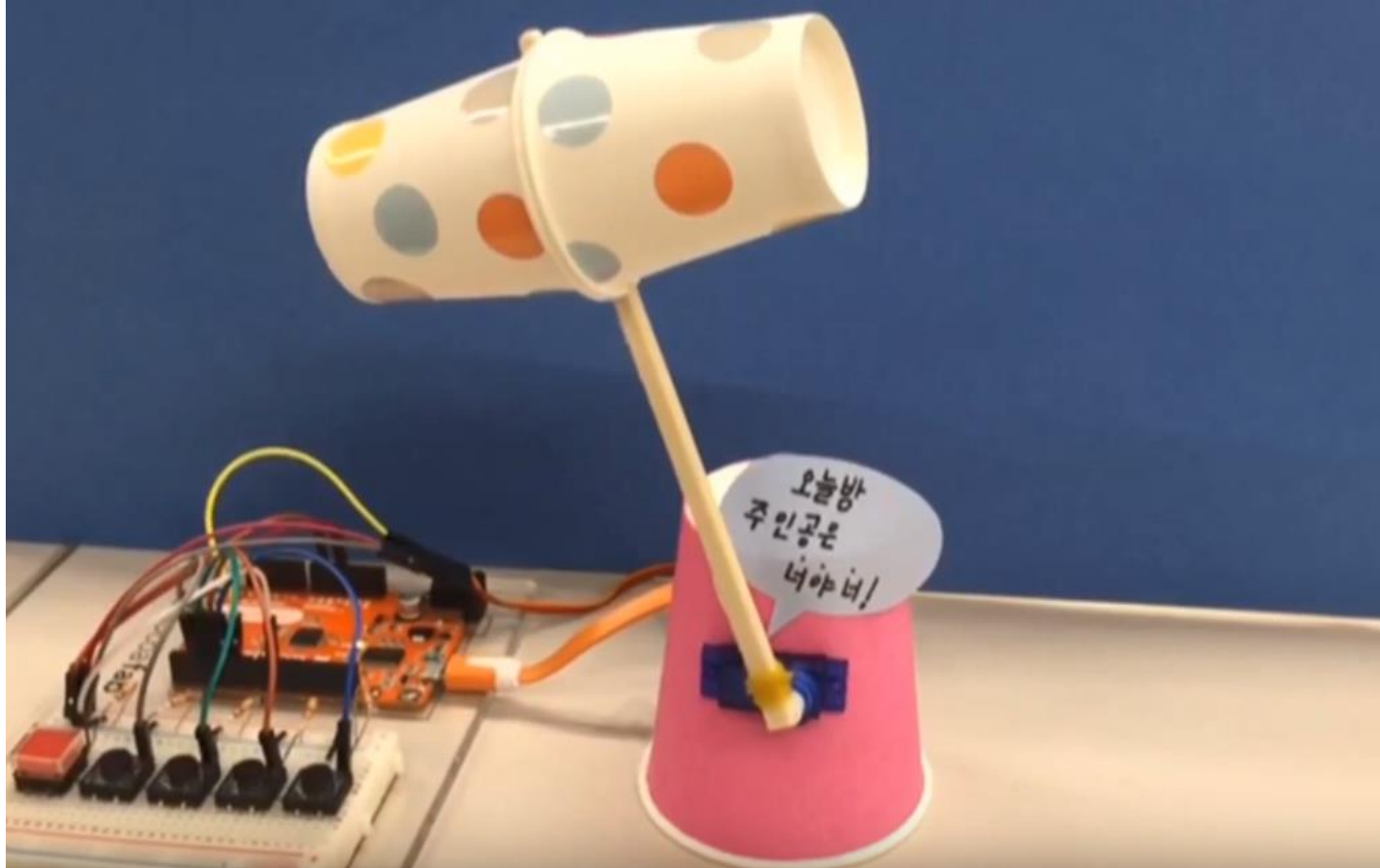
  delay(100);
}
```

아이디어
적어보자

아두이노 오르기



망치게임



루돌프 만들기 1:06



주차장 차단기 0:51

