

```
void setup()
{
    Serial.begin(115200);
    pinMode(13, OUTPUT);
}

void loop()
{
    pinMode(11, OUTPUT);
    digitalWrite(11, 0);
    delayMicroseconds(2);
    digitalWrite(11, 1);
    delayMicroseconds(5);
    digitalWrite(11, 0);

    pinMode(12, INPUT);
    long t = pulseIn(12, 1);
    float D = t/29/2;
    Serial.print(D);
    Serial.print(",");
    Serial.println(t);

    if (D < 20.0)
    {
        digitalWrite(13, 1);
        delay(D*10);
        digitalWrite(13, 0);
        delay(D*10);
    }
    else
        digitalWrite(13, 0);

    delay(200);
}
```