

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

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

  pinMode(12, INPUT); // Echo
  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*15);
    digitalWrite(13, 0);
    delay(D*15);
  }
  else
    digitalWrite(13, 0);

    delay(10);
}
```