

```
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*20);
    }
}
```

```
        digitalWrite(13, 0);  
        delay (D*20);  
    }  
    else  
        digitalWrite(13, 0);  
  
    delay(20);  
  
}
```