

```
void setup ()
{
  Serial.begin(115200);
  pinMode(2, OUTPUT);
  pinMode(3, INPUT);
}
```

```
void loop()
{
  digitalWrite(2, 0);
  delayMicroseconds(2);
  digitalWrite(2, 1);
  delayMicroseconds(5);
  digitalWrite(2, 0);

  int T = pulseIn(3, 1);
  float D = T/58.0;

  Serial.println(D);
  if(D < 10)
  {
    digitalWrite(13, 1);
  }
  else if(D < 25)
  {
    digitalWrite (13, 1);
    delay(200);
    digitalWrite(13, 0);
    delay(200);
  }
  else if(D < 40)
  {
    digitalWrite (13, 1);
    delay(400);
    digitalWrite(13, 0);
    delay(400);
  }
  else
```

```
digitalWrite(13,0);
```

```
delay(100);
```

```
}
```