

```
void setup()
{
    Serial.begin(115200);
    pinMode(2, OUTPUT);
    pinMode(3, INPUT);
    pinMode(13, OUTPUT);
}
```

```
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);  
}
```