

```
void setup()
{
  Serial.begin(115200);
  pinMode(11,OUTPUT); // 27 Trig
  pinMode(12,INPUT); // 27 Echo
  pinMode(13,OUTPUT); // LED
}
```

```
void loop()
{
  digitalWrite(11,0);
  delayMicroseconds (2);
  digitalWrite(11,1);
  delayMicroseconds (5);
  digitalWrite(11,0);
  int T = pulseIn(12,1);
  float D = T/29.0/2.0;
  Serial.print(T);
  Serial.print(",");
  Serial.println(D);
```

```
if(D > 10)
{
  digitalWrite(13,1);
}
```

```
else if(D < 20)
{
  digitalWrite(13,1);
  delay(200);
  digitalWrite(13,0);
  delay(200);
}
```

```
else if(D < 30)
{
  digitalWrite(13,1);
  delay(400);
```

```
digitalWrite(13,0);  
delay(400);  
}  
else if(D > 30)  
{  
digitalWrite(13,0);  
}  
delay(100);  
}
```