# 抢答器

当按键按下时，数字10、9、8接口可读出为高电平，这时我们使数字7、6、5口输出高电平可使小灯亮起，程序中我们判断数字10、9、8口是否为低电平，要为低电平使数字7、6、5口输出也为低电平，小灯不亮。

## 原理图



## 实物连接图



## 程序代码

int redled = 10;

int yellowled = 9;

int greenled = 8;

int redpin = 7;

int yellowpin = 6;

int greenpin = 5;

int red;

int yellow;

int green;

void setup()

{

 pinMode(redled, OUTPUT);

 pinMode(yellowled, OUTPUT);

 pinMode(greenled, OUTPUT);

 pinMode(redpin, INPUT);

 pinMode(yellowpin, INPUT);

 pinMode(greenpin, INPUT);

}

void loop()

{

 red = digitalRead(redpin);

 if (red == LOW)

 {

 digitalWrite(redled, LOW);

 }

 else

 {

 digitalWrite(redled, HIGH);

 }

 yellow = digitalRead(yellowpin);

 if (yellow == LOW)

 {

 digitalWrite(yellowled, LOW);

 }

 else

 {

 digitalWrite(yellowled, HIGH);

 }

 green = digitalRead(greenpin);

 if (green == LOW)

 {

 digitalWrite(greenled, LOW);

 }

 else

 {

 digitalWrite(greenled, HIGH);

 }

}