实时温湿度检测器

#include <dht11.h>

#include <Wire.h>

dht11 DHT;

#define DHT11\_PIN 4

**void** setup(){

Serial.begin(9600);       // 设置串口波特率9600

  //串口输出”Type, status, Humidity(%), Temperature(C)”

  Serial.println("Type,\tstatus,\tHumidity(%),\tTemperature(C)");

}

**void** loop(){

**int** chk;     //chk用于存储DHT11传感器的数据

Serial.**print**("DHT11, \t");

  //读取DHT11传感器的数据

  chk = DHT.read(DHT11\_PIN);

**switch**(chk){

    caseDHTLIB\_OK:

               Serial.**print**("OK,\t");

**break**;

    caseDHTLIB\_ERROR\_CHECKSUM:

               Serial.**print**("Checksum error,\t");

**break**;

    caseDHTLIB\_ERROR\_TIMEOUT:

               Serial.**print**("Time out error,\t");

**break**;

**default**:

               Serial.**print**("Unknown error,\t");

**break**;

  }

//串口显示温湿度值

Serial.**print**(DHT.humidity,1);

Serial.**print**(",\t");

  Serial.println(DHT.temperature,1);

  //LCD显示温湿度值

delay(1000);

}

#include<Servo.h>

Servo ser;

int pos;

int i=0;

void setup() {

  ser.attach(7);

Serial.begin(9600); // 设置串口波特率9600

}

void loop() {

  pos = ser.read();Serial.println(pos);

  if(Serial.available()!= '-1')

  {

     if(Serial.read()=='+'&& pos<180)

     {  exp1:for(i=0;i<180;i++)

        {ser.write(++pos);delay(100);

         if(Serial.read()=='s')

     {  while(Serial.read()!='g')

        {delay(100);

        if(Serial.read()=='0')break;

        else if(Serial.read()=='1') goto exp;}

     }

      if(pos==180) {Serial.flush(); break;}}

     }

     if(Serial.read()=='-'&& pos>0)

     {exp:  for(i=0;i<180;i++)

        {ser.write(--pos);delay(100);

         if(Serial.read()=='s')

     {  while(Serial.read()!='g')

        {delay(100);

        if(Serial.read()=='0')break;

        else if(Serial.read()=='1') goto exp1;

        }

     }

      if(pos==0){Serial.flush(); break;}}

     }

     if(Serial.read()=='m') ser.write(90);

    if(Serial.read()=='zero')ser.write(0);

    if(Serial.read()=='end') ser.write(180);

    if(Serial.read()=='exit') return;

  }

}

#include <dht.h>

dht myDHT\_4;

int dht\_4\_gettemperature() {

int chk = myDHT\_4.read11(4);

int value = myDHT\_4.temperature;

return value;

}

int dht\_4\_gethumidity() {

int chk = myDHT\_4.read11(4);

int value = myDHT\_4.humidity;

return value;

}

void setup(){

Serial.begin(9600);

pinMode(5, OUTPUT);

}

void loop(){

Serial.println("");

if (dht\_4\_gettemperature() > 25 && dht\_4\_gethumidity() > 50) {

tone(5,131);

}

}

#include<Servo.h>

#include <dht11.h>

#include <Wire.h>

dht11 DHT;

#define DHT11\_PIN 4

Servo servo\_7;

#define TOUCH\_SIG 8

int pos;

//获取状态

boolean get\_touch(){

boolean touch\_stat=0;

touch\_stat=digitalRead(TOUCH\_SIG);//读入状态

return touch\_stat;

}

void setup() {

pinMode(TOUCH\_SIG,INPUT); //设置8号端口为输入模式

Serial.begin(9600);

servo\_7.attach(7);

}

void loop() {

boolean touch\_stat;

// put your main code here, to run repeatedly:

Serial.print("\nrunning\nTouch Stat - ");

touch\_stat=get\_touch();

Serial.print(touch\_stat);

if(touch\_stat==1){

servo\_7.write(100);

delay(150);

//for (pos = 0; pos<180; pos += 1) { // in steps of 1 degree

//servo\_7.write(pos); delay(15); }

//delay(10);

//for (pos = 180; pos>0; pos -= 1) { servo\_7.write(pos); delay(15);

}

else{ servo\_7.write(0);}

delay(100);

}