#include "BluetoothSerial.h"

BluetoothSerial SerialBT;

int echopin=4;

int trigpin=5;

void setup() {

// put your setup code here, to run once:

pinMode(echopin,INPUT);

pinMode(trigpin,OUTPUT);

pinMode(15,OUTPUT);

Serial.begin(115200);

delay(3000);

SerialBT.begin("ESP32test"); //Bluetooth device name

Serial.println("The device has started, now you can pair it with bluetooth!");

}

void loop() {

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

digitalWrite(trigpin,HIGH);

delay(1000);

digitalWrite(trigpin,LOW);

int duration=pulseIn(echopin,HIGH);

int distance=duration\*0.0343/2;

int b=distance;

Serial.println(b);

if (b>=0) {

SerialBT.println(b);

}

if (SerialBT.available())

int a;

a=SerialBT.read();

Serial.println(a);

if(a==48)

{

Serial.println("OFF");

digitalWrite(15,LOW);

}

if(a==49)

{

digitalWrite(15,HIGH);

}

}

delay(20);

}

