#include "BluetoothSerial.h"

BluetoothSerial SerialBT;

int motor=2; //LED

char incoming\_BT\_value =0;

int trigpin=4;

int echopin=5;

void setup() {

Serial.println("data");

SerialBT.begin("ESP32");

Serial.println("Started Device pair with bluetooth");

pinMode(motor, OUTPUT);

Serial.begin(115200);

pinMode(trigpin,OUTPUT);

pinMode(echopin,INPUT);

delay(1000);

}

void loop() {

if(Serial.available())

{

SerialBT.write(Serial.read());

}

if(SerialBT.available())

{

SerialBT.write(SerialBT.read());

}

digitalWrite(trigpin,HIGH);

delay(1000);

digitalWrite(trigpin,LOW);

int duration=pulseIn(echopin,HIGH);

int distance=duration\*0.343/2;

Serial.println("the distance is");

Serial.print(distance);

char incoming\_value=1;

if(SerialBT.available()==1)

{

incoming\_value=SerialBT.read();

if(distance<100)

{

SerialBT.print("Level of water pump is: ");

SerialBT.println(distance);

delay(2000);

SerialBT.println("Tank is full");

delay(1000);

SerialBT.println("OVERFLOW TURNOFF MOTOR");

delay(1000);

}

else if(distance>=100)

{

SerialBT.println("Level of water pump is:");

SerialBT.print(distance);

delay(2000);

SerialBT.println("LOW Water Level");

delay(1000);

SerialBT.println("UNDERFLOW TURNON MOTOR");

delay(1000);

}

}

if(SerialBT.available()>0){

incoming\_BT\_value=SerialBT.read();

}

if(incoming\_BT\_value=='1')

{

digitalWrite(motor,HIGH);

}

else if(incoming\_BT\_value=='0')

{

digitalWrite(motor,LOW);

}

}