ASSIGNMENT 4

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*CODE:*

#include "BluetoothSerial.h"

#if !defined(CONFIG\_BT\_ENABLED) || !defined(CONFIG\_BLUEDROID\_ENABLED)

#error Bluetooth is not enabled! Please run `make menuconfig` to and enable it

#endif

BluetoothSerial SerialBT;

int echopin=4;

int trigpin=5;

const char pumpon='pumpon';

const char pumpoff='pumpoff';

void setup() {

pinMode(echopin,INPUT);

pinMode(trigpin,OUTPUT);

pinMode(2,OUTPUT);

Serial.begin(115200);

SerialBT.begin("ESP32test");

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

}

void loop() {

char ledinfo=SerialBT.read();

if (ledinfo==pumpon)

{

digitalWrite(2,HIGH);

}

if (ledinfo==pumpoff)

{

digitalWrite(2,LOW);

}

digitalWrite(trigpin,HIGH);

delay(1000);

digitalWrite(trigpin,LOW);

int duration=pulseIn(echopin,HIGH);

int distance=duration\*0.0343/2;

if (distance<=20)

{

Serial.println("Switch off the pump");

Serial.print("water level: ");

Serial.println(distance);

SerialBT.println("switch off the pump");

SerialBT.print("water level:");

SerialBT.println(distance);

}

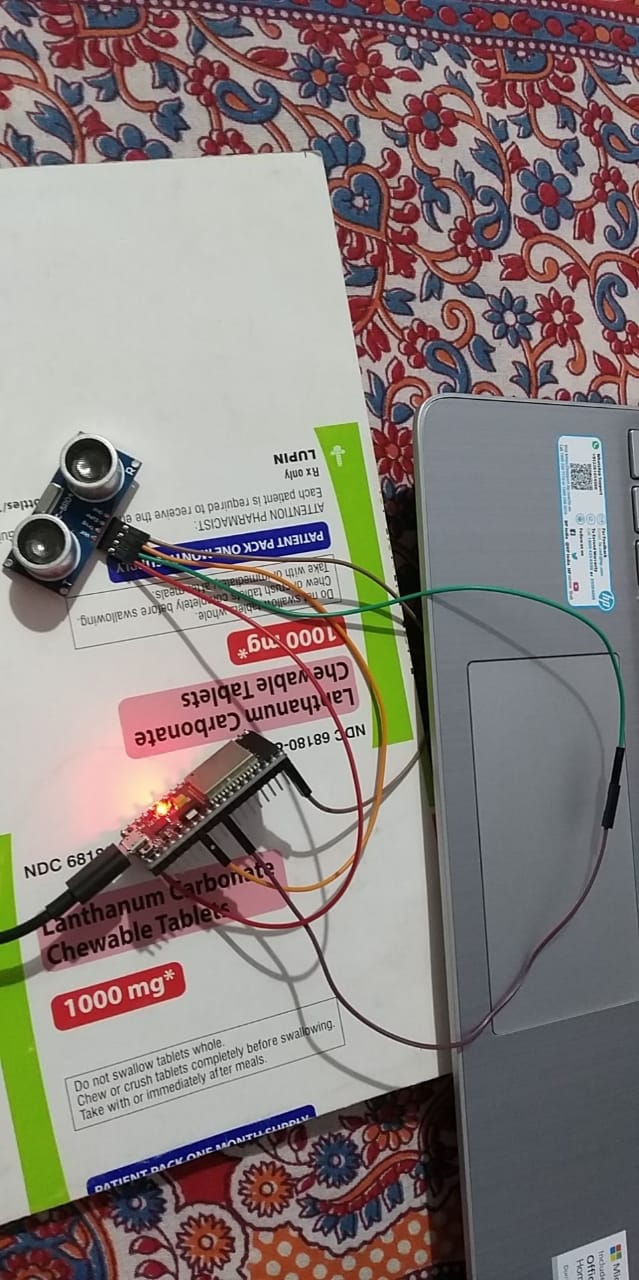
else(distance>20);

{

Serial.print("water level = ");

Serial.println(distance);

SerialBT.print("water level = ");

 SerialBT.println(distance);

}

delay(1000);

}

