**LAMPIRAN**

**Lampiran Sourcode Arduino**

#define BLYNK\_PRINT Serial

#include <ESP8266WiFi.h>

#include <BlynkSimpleEsp8266.h>

#include <SimpleTimer.h>

char auth[] = "-D2pItCRLIfDYZXWCY30WtphN1PNQdav";

char ssid[] = "ASUS";

char pass[] = "11111111";

SimpleTimer timer;

int mq135 = A0;

int data = 0;

const int speakerPin = D1;

const int pitchLow = 200;

const int pitchHigh = 1000;

int pitchStep = 10;

int currentPitch;

int delayTime;

int period = 60; // 1 Menit

static int tStart = 0;

void setup() {

 Serial.begin(115200);

 Blynk.begin(auth, ssid, pass);

 timer.setInterval(1000L, getSendData);

}

void loop()

{

 timer.run(); // Inisialisasi SimpleTimer

 Blynk.run();

}

void getSendData() {

 data = analogRead(mq135);

 Blynk.virtualWrite(V2, data); //virtual pin V2

 if (data > 300)

 {

 //Blynk.notify("Amonia terdeteksi!!!");

 tStart += 1;

 if (tStart >= 60) {

 Blynk.notify("Toilet Bau!!!");

 alarm();

 }

 } else {

 tStart = 0;

 }

}

void alarm() {

 currentPitch = pitchLow;

 delayTime = 10;

 tone(speakerPin, currentPitch, 1000);

 currentPitch += pitchStep;

 if (currentPitch >= pitchHigh) {

 pitchStep = -pitchStep;

 }

 else if (currentPitch <= pitchLow) {

 pitchStep = -pitchStep;

 }

 delay(delayTime);

}