

WhatsApp sketch.ino - Wokwi Arduino and IBM

wokwi.com/projects/348505403990999635

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sketch.ino diagram.json libraries.txt Library Manager Simulation

```
1 #include <ESP32Servo.h>
2 #include <LiquidCrystal_I2C.h>
3 LiquidCrystal_I2C LCD = LiquidCrystal_I2C(0x27, 16,
4 Servo servo;
5 int trigPin1 = 2;
6 int echoPin1 = 4;
7 int trigPin2 = 27;
8 int echoPin2 = 26;
9 int duration1;
10 int distance1;
11 int duration2;
12 int distance2;
13 //Servo servo;
14 void setup(){
15   LCD.begin(16,2);
16   LCD.init();
17   LCD.backlight();
18   LCD.clear();
19   servo.attach(13);
20   Serial.begin(115200);
21   pinMode(trigPin1, OUTPUT);
22   pinMode(echoPin1, INPUT);
23   pinMode(trigPin2, OUTPUT);
24   pinMode(echoPin2, INPUT);
25   //lcd.init();
26 }
27 void loop() {
28   if(distance1 < 10){
29     digitalWrite(trigPin1, LOW);
30     delayMicroseconds(2);
31     digitalWrite(trigPin1, HIGH);
32     delayMicroseconds(10000);
33     digitalWrite(trigPin1, LOW);
34     duration1 = pulseIn(echoPin1, HIGH);
35     distance1 = duration1 * 0.0343 / 2;
36     Serial.print("The lid is open\n");
37     Serial.print("Bin status:100%\n");
38     servo.write(180);
39     delay(1000);
40     digitalWrite(trigPin2, LOW);
41     delayMicroseconds(2);
42     digitalWrite(trigPin2, HIGH);
43     delayMicroseconds(10000);
44     digitalWrite(trigPin2, LOW);
45     duration2 = pulseIn(echoPin2, HIGH);
46     distance2 = duration2 * 0.0343 / 2;
47     Serial.print("The lid is open\n");
48     Serial.print("Bin status:100%\n");
49     servo.write(0);
50     delay(1000);
51     Serial.print("The lid is closed\n");
52     delay(1000);
53   }
54 }
```

The lid is open
Bin status:100%
The lid is open
Bin status:100%
The lid is open
Bin status:100%
The lid is closed

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