Circuit Code Simulation

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Simulation   00:25.281   90%

```
48
49    }
50    LCD.setCursor(0,1);
51    LCD.print("Fill Status: ");
52
53    if(distance2>300 && distance2<=400){
54      LCD.setCursor(12,1);
55      LCD.print("25% ");
56      Serial.println("Bin status:25%");
57    }
58    else if(distance2 > 200 && distance2<= 299){
59      LCD.setCursor(12,1);
60      LCD.print("50%");
61      Serial.println("Bin status:50%");
62    }
63    else if(distance2 >50 && distance2<=199){
64      LCD.setCursor(12,1);
65      LCD.print("75%");
66      Serial.println("Bin status:75%");
67    }
68    else{
69      LCD.setCursor(12,1);
70      LCD.print("100%");
71      Serial.println("Bin status:100%");
72    }
73    if(distance1<=50){
74      servo.write(90);
75    }
76    else{
77      servo.write(0);
78    }
79    }
80
```

Fill Status:100%

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

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Simulation

```
1     #include <ESP32Servo.h>
2     #include <LiquidCrystal_I2C.h>
3     LiquidCrystal_I2C LCD = LiquidCrystal_I2C(0x27, 16, 2);
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(10);
33    digitalWrite(trigPin1, LOW);
34    duration1 = pulseIn(echoPin1, HIGH);
```