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```
1
2 int LED = 13;
3 int buzzer = 11;
4 int t=2;
5 int e=3;
6 int sensor = 2;
7 int state = LOW;
8 int val = 0;
9
10 void setup() {
11   // put your setup code here, to run once:
12   pinMode(LED,OUTPUT);
13   pinMode(buzzer,OUTPUT);
14   Serial.begin(9600);
15   pinMode(2,OUTPUT);
16   pinMode(3,INPUT);
17   pinMode(sensor, INPUT);
18   Serial.begin(9600);
19 }
20
21 void loop() {
22   // put your main code here, to run repeatedly:
23   digitalWrite(LED,HIGH);
24   delay(1000);
25   digitalWrite(LED,LOW);
26   delay(1000);
27   tone(buzzer,450);
28   delay(500);
29   noTone(buzzer);
```

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```
30 delay(500);
31 digitalWrite(t,LOW);
32 delay(100);
33 digitalWrite(t,HIGH);
34 delayMicroseconds(10);
35 digitalWrite(t,LOW);
36 float dur=pulseIn(e,HIGH);
37 float dis=(dur* 0.0343)/2;
38 Serial.print("Distance:");
39 Serial.print(dis);
40 Serial.print("cm");
41 val = digitalRead(sensor);
42 if (val == HIGH) {
43   delay(100);
44
45   if (state == LOW) {
46     Serial.println("Motion detected!");
47     state = HIGH;
48   }
49 } else{
50   delay(200);
51
52   if (state == HIGH){
53     Serial.println("Motion stopped!");
54     state = LOW;
55   }
56 }
57 }
58 }
```

Sim

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Simulation

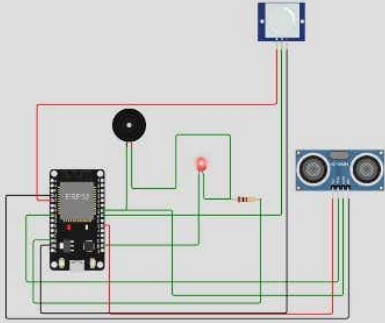
diag

Lib

Man

Restart the simulation

00:04.992 99%



E (4102) ledc: ledc\_get\_duty(739): LEDC is not initialized  
Distance:0.00cmMotion detected!

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