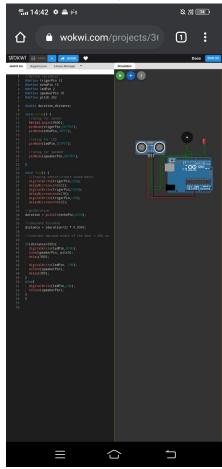
https://wokwi.com/projects/363257801925705729



```
//define variables
#define trigerPin 12
#define echoPin 13
#define ledPin 2
#define speakerPin 10
#define pitch 262
double duration, distance;
void setup() {
 //setup for sensor
 Serial.begin(9600);
 pinMode(trigerPin,OUTPUT);
 pinMode(echoPin,INPUT);
 //setup for LED
 pinMode(ledPin,OUTPUT);
 //setup for speaker
 pinMode(speakerPin,OUTPUT);
}
```

```
void loop() {
 //looping sensor(create sound wave)
 digitalWrite(trigerPin,LOW);
 delayMicroseconds(2);
 digitalWrite(trigerPin,HIGH);
 delayMicroseconds(10);
 digitalWrite(trigerPin,LOW);
 delayMicroseconds(2);
//getduration
duration = pulseIn(echoPin,HIGH);
//caculate distance
distance = (duration/2) * 0.0343;
//consider maximum width of the door = 200 cm
if(distance<200){
 digitalWrite(ledPin,HIGH);
 tone(speakerPin, pitch);
 delay(300);
 digitalWrite(ledPin, LOW);
 noTone(speakerPin);
 delay(300);
}
else{
 digitalWrite(ledPin,LOW);
 noTone(speakerPin);
}
}
```