

```
#include <Wire.h>

const int doorPin = A0; //declares pin for doorAlert
const int speaker = 8;

int doorOpen;

void setup() {
  // put your setup code here, to run once:

  pinMode(doorPin, INPUT);
  pinMode(speaker, OUTPUT);
  Serial.begin(9600);
}

void loop() {
  doorOpen = digitalRead(doorPin);
  if(doorOpen == LOW) {
    Serial.print("Door is open!!!!!!\n");
    digitalWrite(LED_BUILTIN, HIGH);
    tone(speaker, 2000, 1000); //tone 1 sec
    delay(1500);
  }
  else {
    Serial.print("Door is closed.\n");
    digitalWrite(LED_BUILTIN, LOW);
    noTone(speaker);
  }
  delay(500);
}
```