|  |
| --- |
|  |
|  | // door buzzer using ultrasonic sensor  int trigger\_pin = 2; |
|  | int echo\_pin = 3; |
|  | int buzzer\_pin = 10; |
|  | int time; |
|  | int distance; |
|  | void setup() |
|  | { |
|  | Serial.begin (9600); |
|  | pinMode (trigger\_pin, OUTPUT); |
|  | pinMode (echo\_pin, INPUT); |
|  | pinMode (buzzer\_pin, OUTPUT); |
|  | } |
|  | void loop() |
|  | { |
|  | digitalWrite (trigger\_pin, HIGH); |
|  | delayMicroseconds (10); |
|  | digitalWrite (trigger\_pin, LOW); |
|  | time = pulseIn (echo\_pin, HIGH); |
|  | distance = (time \* 0.034) / 2; |
|  |  |
|  | if (distance <= 10) |
|  | { |
|  | Serial.println (" Door Open "); |
|  | Serial.print (" Distance= "); |
|  | Serial.println (distance); |
|  | digitalWrite (buzzer\_pin, HIGH); |
|  | delay (500); |
|  | } |
|  | else { |
|  | Serial.println (" Door closed "); |
|  | Serial.print (" Distance= "); |
|  | Serial.println (distance); |
|  | digitalWrite (buzzer\_pin, LOW); |
|  | delay (500); |
|  | } |
|  | } |