

DOOR BUZZER USING ULTRASONIC SENSOR

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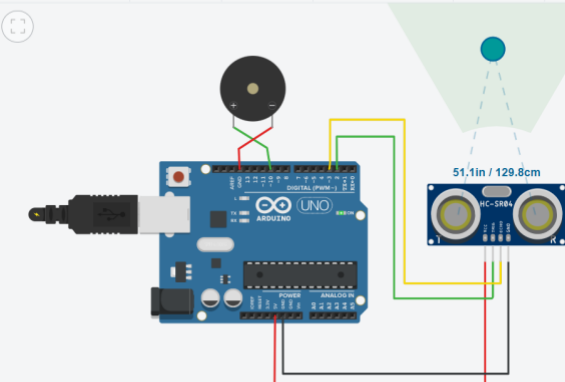
Brilliant Bombul-Densor

All changes saved

Simulator time: 00:00:25

Code Stop Simulation Send To

1 (Arduino Uno R3)



```
1 // Door Alarm Using Arduino UNO and Ultrasonic Sensor
2 // Code to be used in the Text sub-window of tinkercad.com circuit
3 int trigger_pin = 2;
4 int echo_pin = 3;
5 int buzzer_pin = 10;
6 int time;int distance;
7 void setup()
8 {
9     Serial.begin (9600);
10    pinMode (trigger_pin, OUTPUT);
11    pinMode (echo_pin, INPUT);
12    pinMode (buzzer_pin, OUTPUT);
13 }
14 void loop()
15 {
16     digitalWrite (trigger_pin, HIGH);
17     delayMicroseconds (10); digitalWrite (trigger_pin, LOW);
18     time = pulseIn (echo_pin, HIGH);
19     distance = (time * 0.034) / 2;
20
21     if (distance <= 10)
22     {
23         Serial.println (" Door Open ");
24         Serial.print (" Distance= ");
25     }
```

Serial Monitor

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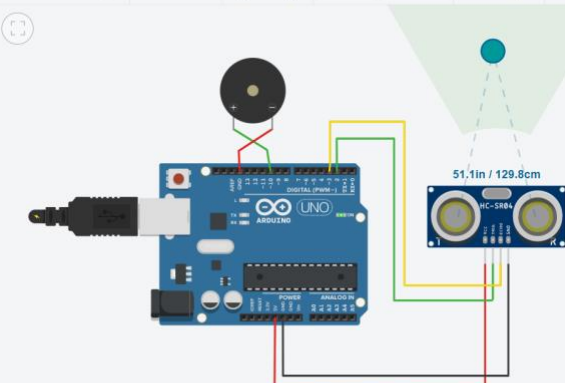
Brilliant Bombul-Densor

All changes saved

Simulator time: 00:00:41

Code Stop Simulation Send To

1 (Arduino Uno R3)



```
13 }
14 void loop()
15 {
16     digitalWrite (trigger_pin, HIGH);
17     delayMicroseconds (10); digitalWrite (trigger_pin, LOW);
18     time = pulseIn (echo_pin, HIGH);
19     distance = (time * 0.034) / 2;
20
21     if (distance <= 10)
22     {
23         Serial.println (" Door Open ");
24         Serial.print (" Distance= ");
25         Serial.println (distance);
26         digitalWrite (buzzer_pin, HIGH);
27         delay (500);
28     }
29     else {
30         Serial.println (" Door closed ");
31         Serial.print (" Distance= ");
32         Serial.println (distance);
33         digitalWrite (buzzer_pin, LOW);
34         delay (500);
35     }
36 }
```

Serial Monitor

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CODE FOR DOOR BUZZER:

// Door Alarm Using Arduino UNO and Ultrasonic Sensor

// Code to be used in the Text sub-window of tinkercad.com circuit page

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        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);  
}  
}
```