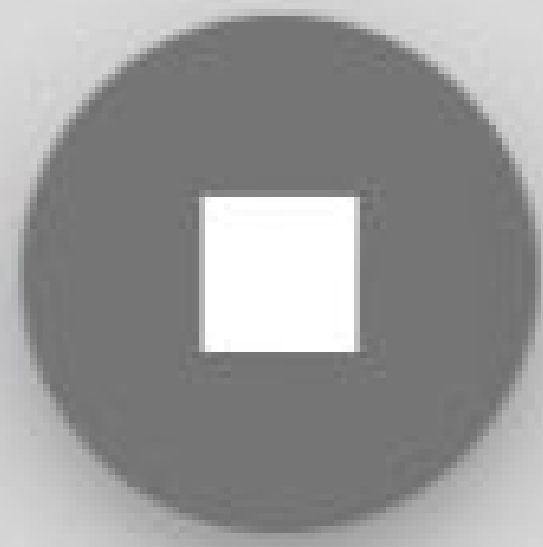
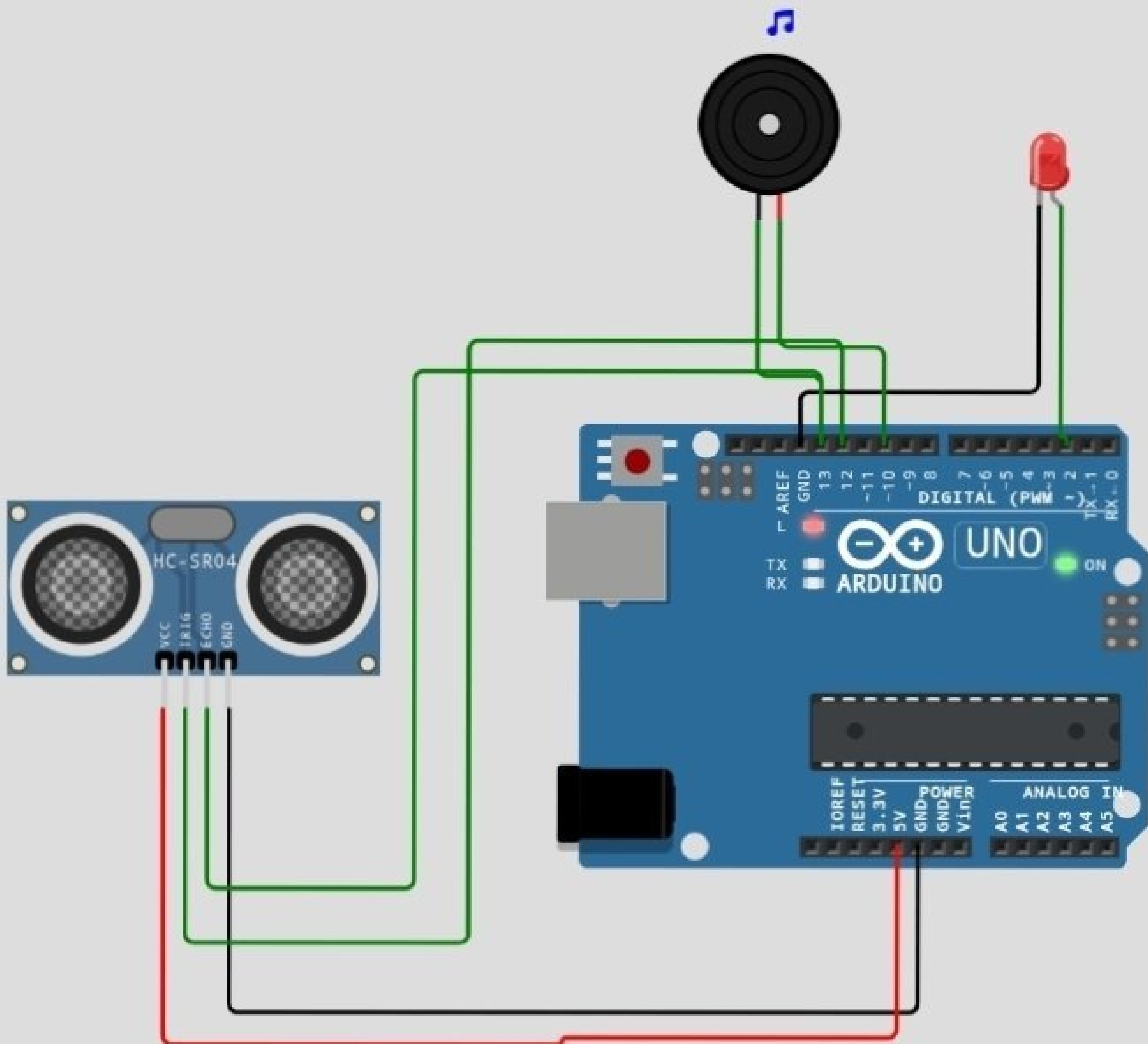


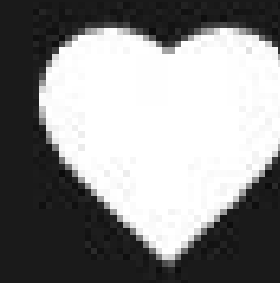
Simulation

Code



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Simulation

Code

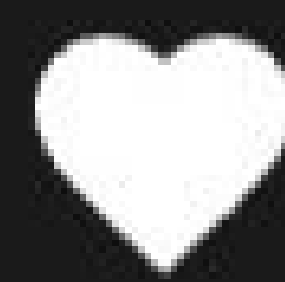
sketch.ino

diagram.json

Library Manager



```
1
2 //define variable
3 #define trigerPin 12
4 #define echoPin 13
5 #define ledPin 2
6 #define speakerPin 10
7 #define pitch 262
8
9 double duration, distance;
10
11 void setup(){
12     //setup for sensor
13     Serial.begin(9600);
14     pinMode(trigerPin,OUTPUT);
15     pinMode(echoPin,INPUT);
16
17     //setup for LED
18     pinMode(speakerPin,OUTPUT);
19
20     //setup for speaker
21     pinMode(speakerPin,OUTPUT);
22
23 }
24
25 void loop() {
26     //looping sensor (create sound
27     digitalWrite(trigerPin, LOW);
28     delayMicroseconds(2):
```



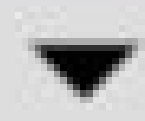
Simulation

Code

sketch.ino

diagram.json

Library Manager



```
25 void loop() {
26     //looping sensor (create sound
27     digitalWrite(trigerPin, LOW);
28     delayMicroseconds(2);
29     digitalWrite(trigerPin, HIGH);
30     delayMicroseconds(10);
31     digitalWrite(trigerPin, LOW);
32     delayMicroseconds(2);
33
34     //get duration
35     duration = pulseIn(echoPin, HIGH);
36
37     //calculate distance
38     distance = (duration/2) * 0.034;
39
40     //consider maximun width of the
41
42     if (distance < 200) {
43         digitalWrite(ledPin, HIGH);
44         tone(speakerPin, pitch);
45         delay(300);
46
47         digitalWrite(ledPin, LOW);
48         noTone(speakerPin);
49         delay(300);
50     }
51     else {
52         digitalWrite(ledPin, LOW);
```



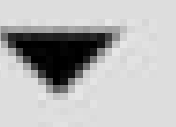
Simulation

Code

sketch.ino

diagram.json

Library Manager



```
45     delay(300);  
46  
47     digitalWrite(ledPin, LOW);  
48     noTone(speakerPin);  
49     delay(300);  
50 }  
51 else{  
52     digitalWrite(ledPin, LOW);  
53     noTone(speakerPin);  
54 }  
55 }  
56  
57  
58  
59  
60  
61  
62  
63  
64  
65  
66  
67  
68
```