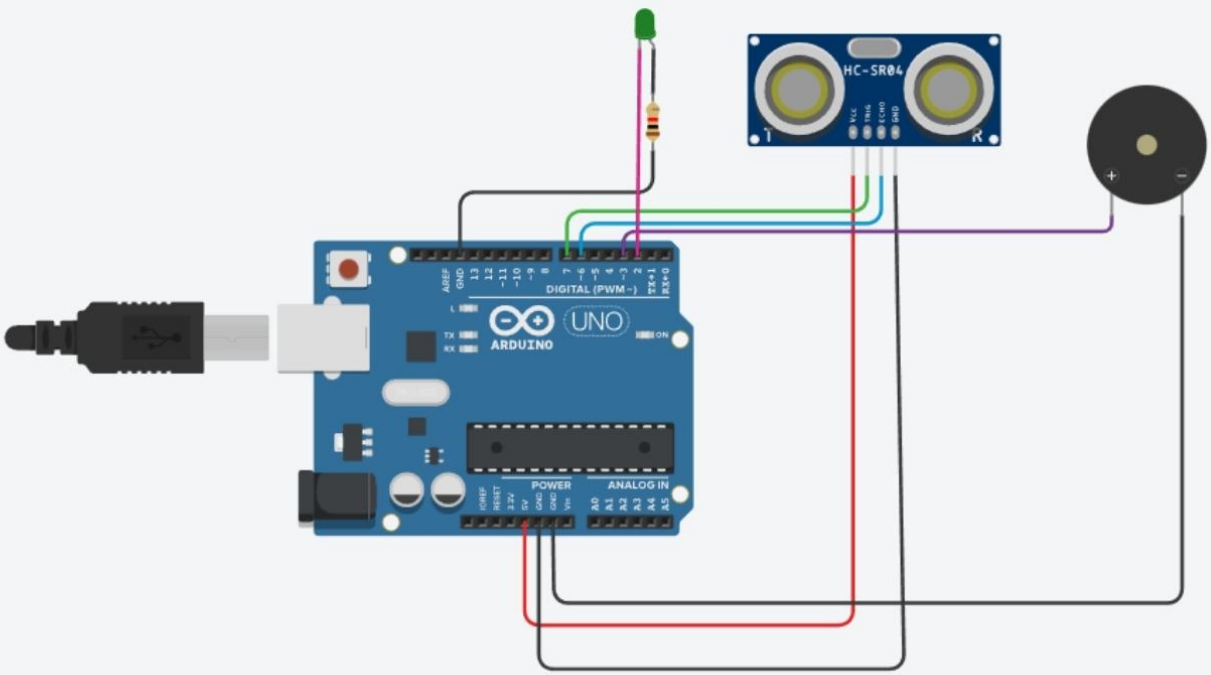
HC-SR04
Vcc
Trig
Echo
Gnd
DIGITAL (PWM~)
ARDUINO
UNO
POWER
ANALOG IN

Text

```
#define trigPin 7
#define echoPin 6
#define buzzerPin 3
#define ledPin 2

void setup()
{
  Serial.begin(9600);
  pinMode(trigPin, OUTPUT);
  pinMode(echoPin,INPUT);
  pinMode(buzzerPin,OUTPUT);
  pinMode(ledPin,OUTPUT);
}

void loop()
{
  long duration, distance;
  digitalWrite(trigPin, LOW);
  delayMicroseconds(5);
  digitalWrite(trigPin,HIGH);
  delayMicroseconds(10);
  digitalWrite(trigPin,LOW);
  duration = pulseIn(echoPin,HIGH);
  distance = (duration/2)/29.1;
  Serial.print(distance);
  Serial.println("cm");
  if(distance<30)
```

Text

```
24    distance = (duration/2)/29.1;
25    Serial.print(distance);
26    Serial.println("cm");
27    if(distance<30)
28    {
29      digitalWrite(buzzerPin,HIGH);
30      digitalWrite(ledPin,HIGH);
31    }
32    else
33    {
34
35      digitalWrite(buzzerPin,LOW);
36      digitalWrite(ledPin,LOW);
37    }
38    delay(30);
39  }
40
```

Serial Monitor

```
19cm
19cm
22cm
27cm
27cm
30cm
32cm
32cm
```