

Arduino Ultrasonic Distance Sensor with LED Alert

```
#define TRIG_PIN 6
#define ECHO_PIN 5
#define LED_PIN 12

long duration;
int distance;

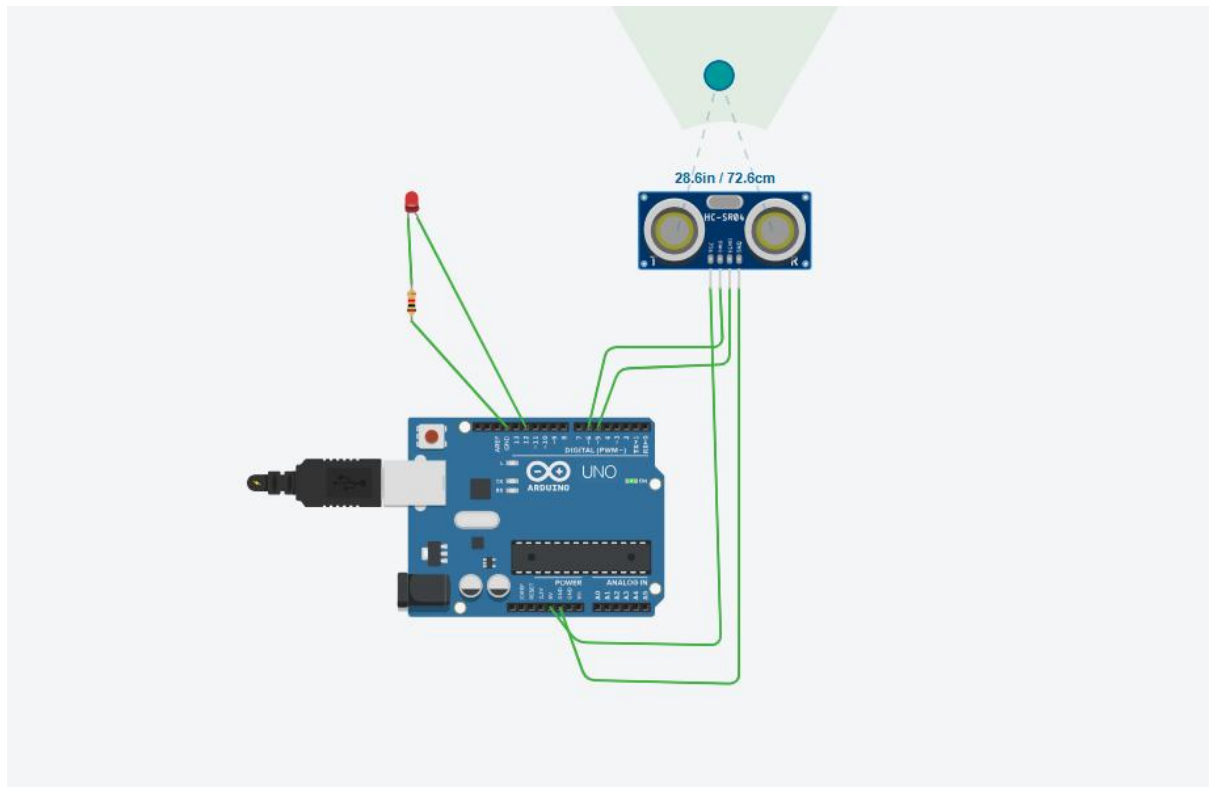
void setup() {
  pinMode(TRIG_PIN, OUTPUT);
  pinMode(ECHO_PIN, INPUT);
  pinMode(LED_PIN, OUTPUT);
  Serial.begin(9600);
}

void loop() {
  digitalWrite(TRIG_PIN, LOW);
  delayMicroseconds(2);

  digitalWrite(TRIG_PIN, HIGH);
  delayMicroseconds(10);
  digitalWrite(TRIG_PIN, LOW);
  duration = pulseIn(ECHO_PIN, HIGH);
  distance = duration * 0.034 / 2; // distance in cm
  if (distance < 100) {
    digitalWrite(LED_PIN, HIGH);
  } else {
    digitalWrite(LED_PIN, LOW);
  }
  Serial.println(distance);
  delay(500);
}
```

Output:

Screen:1



Screen:2

