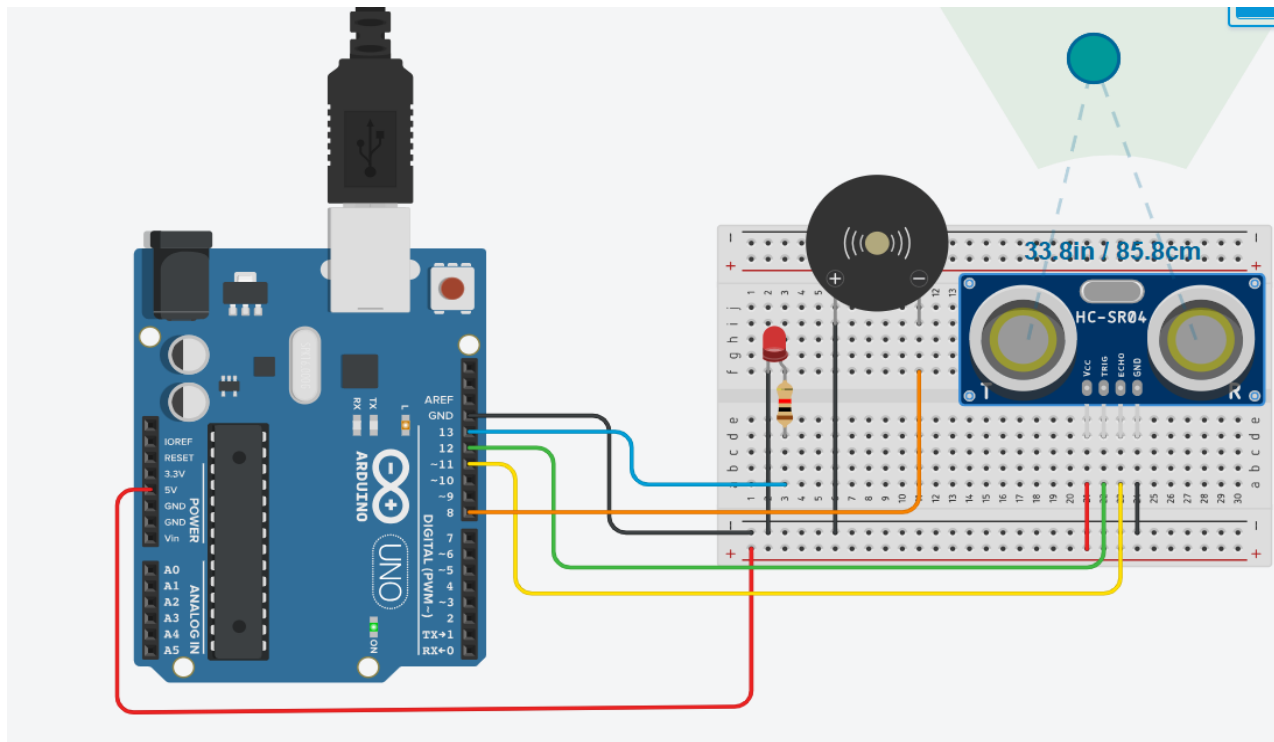


## 5. Ultrasonic Sensor



```
long duration, dist_cm;

void setup()
{
  pinMode(13, OUTPUT);
  pinMode(12, OUTPUT);
  pinMode(11, INPUT);
  pinMode(8, OUTPUT);
}

void loop()
{
  digitalWrite(12, LOW);
  delayMicroseconds(5);
  digitalWrite(12, HIGH);
  delayMicroseconds(10);
  digitalWrite(12, LOW);
```

```
    //pinMode(11, INPUT);

    duration = pulseIn(11, HIGH);

    dist_cm = (duration/2) / 29;
    if(dist_cm>0 && dist_cm<300){
        digitalWrite(13,HIGH);
        digitalWrite(8,HIGH);
    }
    else {
        digitalWrite(8,LOW);
        digitalWrite(13,LOW);
    }
}
```