

# Assignment-1

**Name:** Manasa.R

**Regno:** 20BCE1055

**Campus:** Chennai

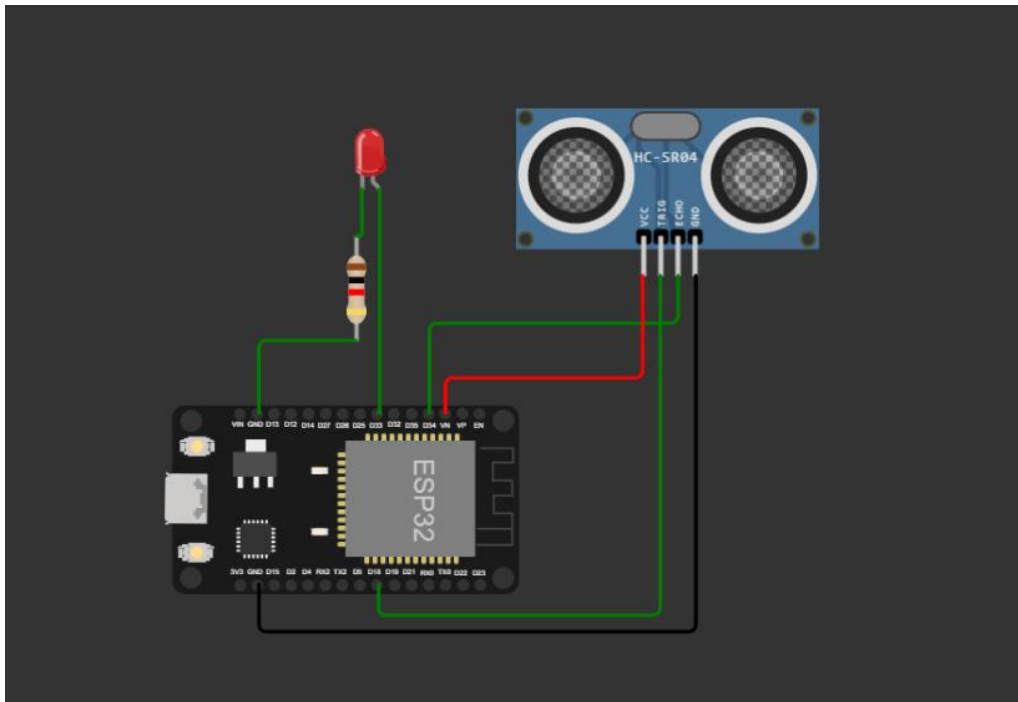
## Question:

In Wokwi, if the distance is less than 100 cms for ultrasonic sensor, glow a LED.

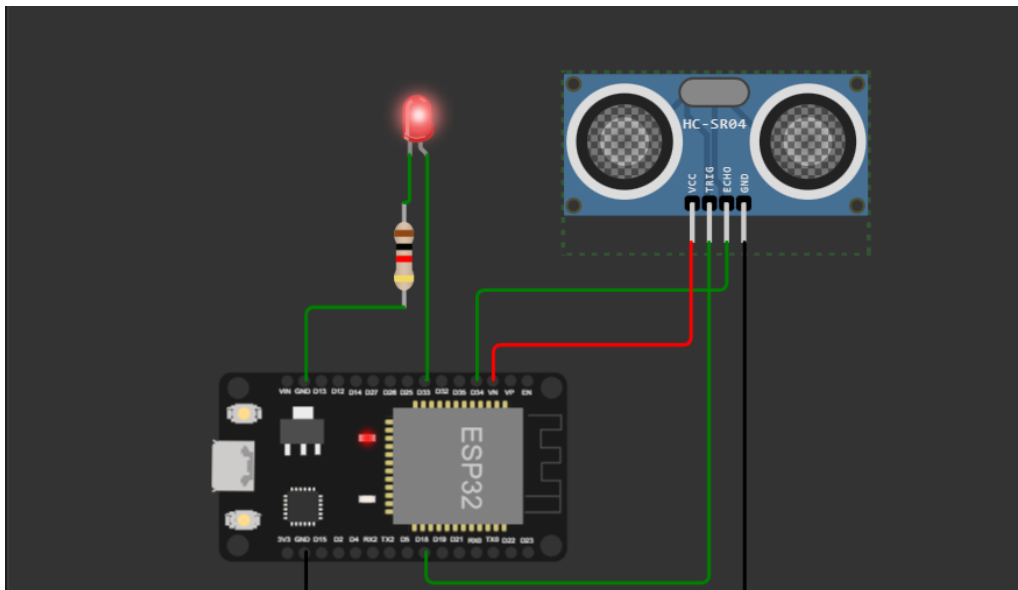
## Code:

```
1  int t = 18;
2  int e = 34;
3  int led = 33;
4  void setup()
5  {
6      Serial.begin(9600);
7      pinMode(e,INPUT);
8      pinMode(t,OUTPUT);
9      pinMode(led,OUTPUT);
10 }
11
12 void loop()
13 {
14     digitalWrite(t,LOW);
15     digitalWrite(t,HIGH);
16     delayMicroseconds(10);
17     digitalWrite(t,LOW);
18     float dur = pulseIn(e,HIGH);
19     float dis = (0.0343*dur)/2;
20     Serial.print("Distance in cm: ");
21     Serial.println(dis);
22     if(dis<100)
23     {
24         digitalWrite(led,HIGH);
25     }
26     else{
27         digitalWrite(led,LOW);
28     }
29 }
```

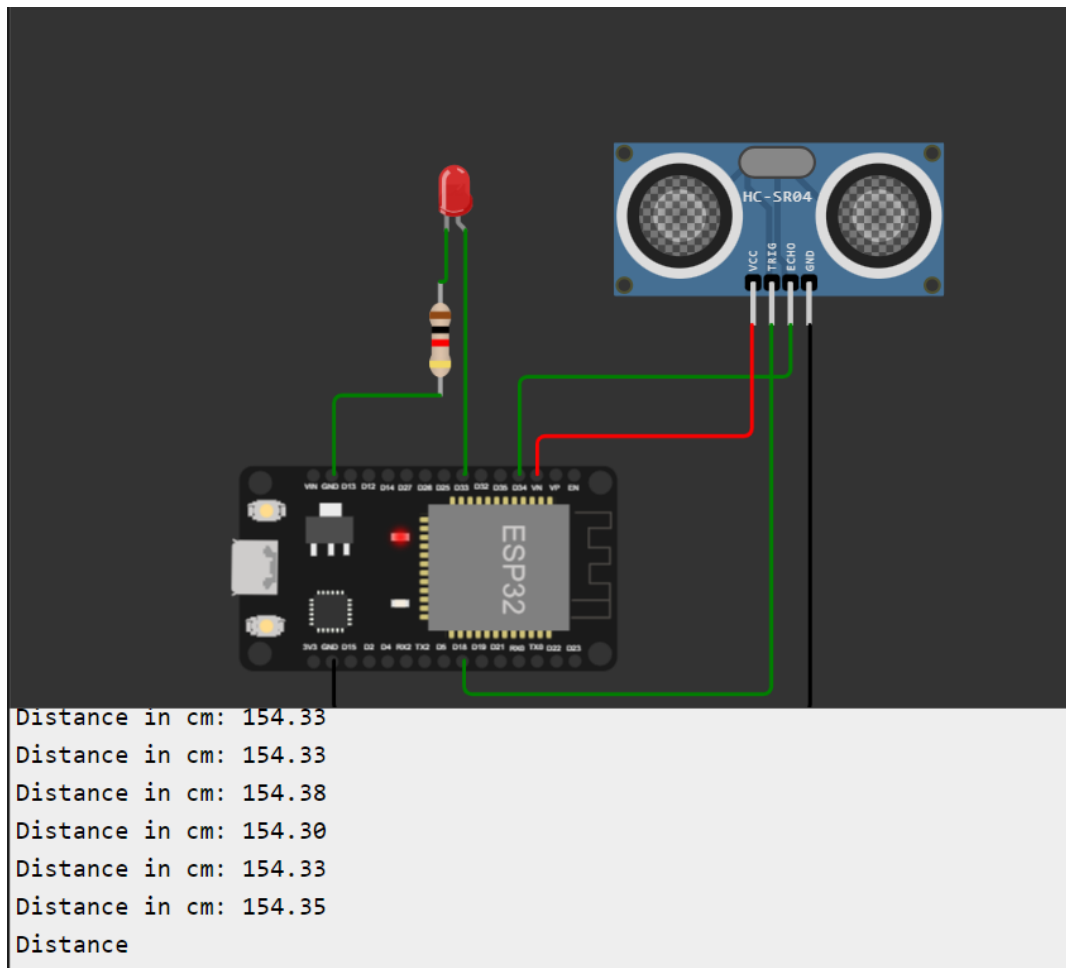
## Circuit:



## Output:



```
Distance in cm: 74.62
Distance in cm: 74.59
Distance in cm: 74.93
Distance in cm: 74.60
Distance in cm: 74.62
Distance in cm: 74.60
Distance in c
```



**Wokwi link:**

<https://wokwi.com/projects/365704804598400001>