

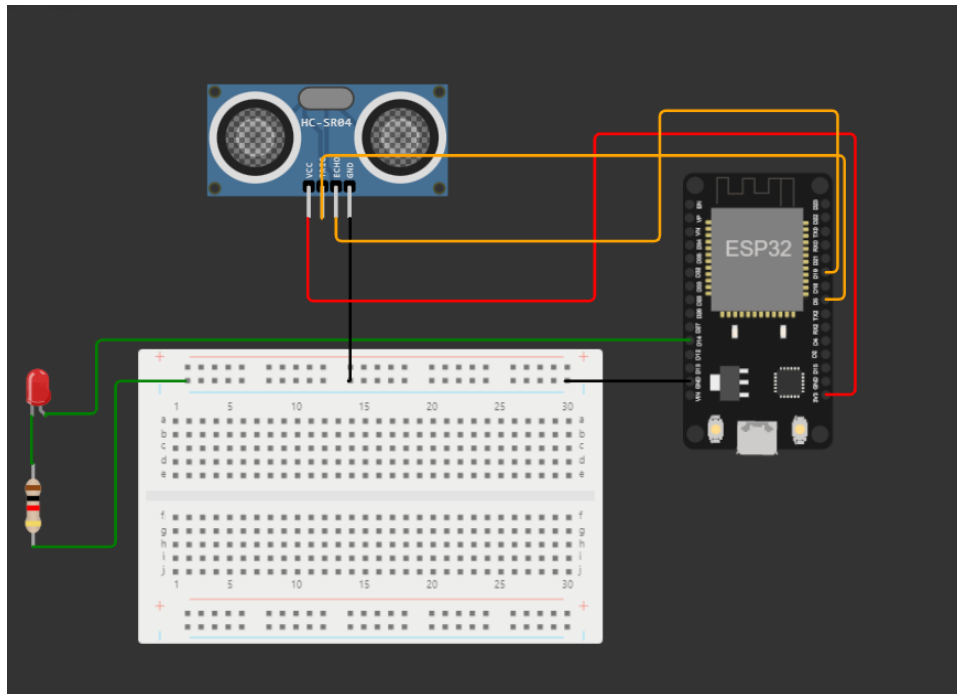
ASSIGNMENT-1

Code: -

```
int led = 14;
int echopin = 19 ;
int trigpin = 5;
int safe;
int dist;
void setup() {
  Serial.begin(9600);
  pinMode(led, OUTPUT);
  pinMode(trigpin, OUTPUT);
  pinMode(echopin, INPUT);
}
void loop() {
  digitalWrite(trigpin,LOW);
  delayMicroseconds(2);
  digitalWrite(trigpin,HIGH);
  delayMicroseconds(10);
  digitalWrite(trigpin,LOW);
  dist = pulseIn(echopin,HIGH);
  safe = (dist/2)/29.0;
```

```
if(safe < 100)
{
    digitalWrite(led,HIGH);
    delay(250);
}
else
{
    digitalWrite(led,LOW);
}
    Serial.print(safe);
    Serial.println("cm");
    delay(500);
}
```

Schematic



Working Schematic

