

Assignment no - 4

Assignment Date	28 October 2022
Student Name	P.Selvakumar
Student Roll Number	815119106038
Maximum Marks	2 Marks

Write code and connections in wokwi for the ultrasonic sensor. Whenever the distance is less than 100 cms send an "alert" to the IBM cloud and display in the device recent events.

```
#define PIN_TRIG 7
#define PIN_ECHO 8
void setup()
{
  Serial.begin(115200);
  pinMode(PIN_TRIG, OUTPUT);
  pinMode(PIN_ECHO, INPUT);
}
void loop()
{
  digitalWrite(PIN_TRIG, HIGH);
  delayMicroseconds(10);
  digitalWrite(PIN_TRIG, LOW);
  int d = (pulseIn(PIN_ECHO, HIGH))/58;
  Serial.print("Distance in CM: ");
  Serial.println(d);
  if(d < 100)
  {
    Serial.println("Alert !!!");
  }
  delay(1000);
}
```

WOKWI

SAVE SHARE

Docs

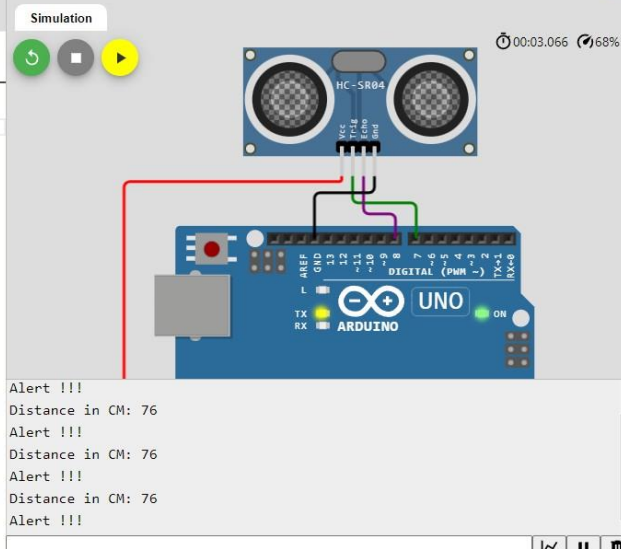
sketch.ino diagram.json Library Manager

```
1 #define PIN_TRIG 7
2 #define PIN_ECHO 8
3 void setup()
4 {
5   Serial.begin(115200);
6   pinMode(PIN_TRIG, OUTPUT);
7   pinMode(PIN_ECHO, INPUT);
8 }
9 void loop()
10 {
11   digitalWrite(PIN_TRIG, HIGH);
12   delayMicroseconds(10);
13   digitalWrite(PIN_TRIG, LOW);
14   int d = (pulseIn(PIN_ECHO, HIGH))/58;
15   Serial.print("Distance in CM: ");
16   Serial.println(d);
17   if(d < 100)
18   {
19     Serial.println("Alert !!!");
20   }
21   delay(1000);
22 }
```

Simulation

00:03.066 68%

Alert !!!
Distance in CM: 76
Alert !!!
Distance in CM: 76
Alert !!!
Distance in CM: 76
Alert !!!



wokwi share link :

<https://wokwi.com/projects/346778497134363218>