# Assignment - 4 Ultrasonic Sensor in Wokwi

Assignment Date	01NOVEMBER 2022
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Maximum Marks	2 Marks

#### Question-1:

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

## CODE: Sketch.ino /\*

#### **Ultrasonic Simple**

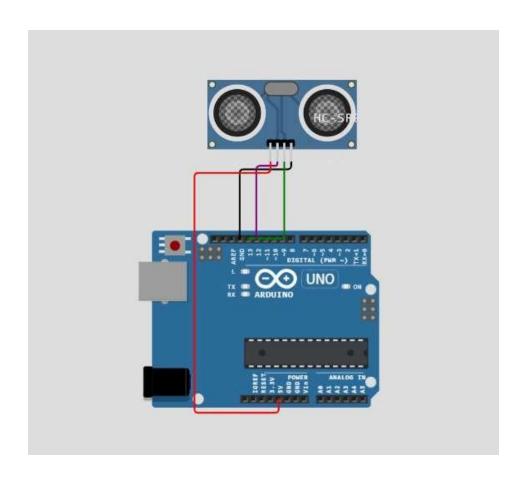
Prints the distance read by an ultrasonic sensor in centimeters. They are supported to four pins ultrasoundsensors (liek HC-SC04) and three pins (like PING))) and Seeed Studio sensors).

# The circuit: \* \* Module HR-SC04 (four pins) or PING))) (and other withthree pins), attached to digital pins as follows:

Ī	HC-SC04	Ī	Arduino	Ī		3	pins	Ī	Arduino	Ï	
ı	Vcc	ı	5V	١		ı	Vcc	Τ	5V	Ι	
1	Trig	ı	12	١	OR	1	SIG	1	13	1	
I	Echo	ı	13	ı		I	Gnd	Ī	GND	ı	
-	Gnd	1	GND								

```
#include "Ultrasonic.h"
Pass as a parameter the trigger and echo pin, respectively, or only the signal
           pin (for sensors 3 pins), like: Ultrasonic ultrasonic(13);
                 Ultrasonic ultrasonic(12, 13); int distance;
                      void setup() { Serial.begin(9600);
                                 void loop() {
     // Pass INC as a parameter to get the distance in inchesdistance =
                            ultrasonic.read(CM);
     Serial.print("Distance in CM: "); Serial.println(distance); distance =
                            ultrasonic.read(INC);
  Serial.print("Distance in Inches: "); Serial.println(distance); delay(1000);
                                       }
                                Diagram.json
                                 "version": 1,
            "author": "Rozen Berg", "editor": "wokwi", "parts": [
                 "type": "wokwi-arduino-uno", "id": "uno",
                                "top": 259.31,
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                                  "attrs": {}
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```

#### **Circuit Diagram**



### **Output:**

