ASSISGNMENT 4

Team ID: PNT2022TMID16026

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

SIMULATION CODE

```
Ultrasonic Simple
   Prints the distance read by an ultrasonic sensor in
   centimeters. They are supported to four pins ultrasound
   sensors (liek HC-SC04) and three pins (like PING)))
   and Seeed Studio sensors).
   The circuit:
 * * Module HR-SC04 (four pins) or PING))) (and other with
   | HC-SC04 | Arduino |
              13
#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(12, 13);
int distance;
void setup() {
  Serial.begin(9600);
void loop() {
 // Pass INC as a parameter to get the distance in inches
```

```
distance = 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);
  "version": 1,
  "author": "Anonymous maker",
  "editor": "wokwi",
  "parts": [
    { "type": "wokwi-arduino-uno", "id": "uno", "top": 70.66, "left": 3.33,
"attrs": {} },
   { "type": "wokwi-hc-sr04", "id": "ultrasonic1", "top": -63.9, "left":
40.33, "attrs": {} }
 ],
  "connections": [
    [ "ultrasonic1:VCC", "uno:5V", "red", [ "v25.9", "h-126.44", "v238",
"h182.67" ] ],
    [ "ultrasonic1:GND", "uno:GND.1", "black", [ "v33.9", "h-16.11" ] ],
    [ "ultrasonic1:ECHO", "uno:13", "purple", [ "v0" ] ],
    [ "ultrasonic1:TRIG", "uno:12", "yellow", [ "v21.23", "h21.67" ] ]
```

SIMULATION



