### Assignment - 4

#### Ultrasonic Sensor in Wokwi

Assignment Date	26 October 2022
Student Name	Deepak M
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Maximum Marks	2 Marks

## Question-1:

Write code and connections in wokwi for ultrasonic sensor. Whenever distance is less than 100cms 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 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
three pins), attached to digital pins as follows:
  _____
                    _____
  | Vcc | 5V | | Vcc | 5V |
  | Trig | 12 | OR | SIG | 13 |
  | Echo | 13 | | Gnd | GND |
 Gnd | GND | -----
  _____
*/
```

# Diagram.json

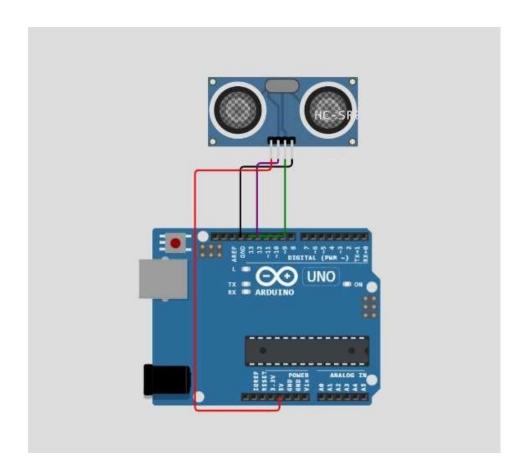
```
"version": 1,
 "author": "Rozen Berg",
  "editor": "wokwi",
  "parts": [
      "type": "wokwi-arduino-uno",
      "id": "uno",
      "top": 259.31,
      "left": 31.06,
"rotate": 0,
      "hide": false,
      "attrs": {}
    } ,
      "type": "wokwi-hc-sr04",
      "id": "ultrasonic",
      "top": 86.99,
      "left": 109.89,
```

```
"rotate": 0,
    "hide": false,
    "attrs": { "distance": "100" }
}

],

"connections": [
    [ "uno:GND.1", "ultrasonic:GND", "black", [ "v-8", "*", "v8" ] ],
    [ "uno:13", "ultrasonic:ECHO", "green", [] ],
    [ "uno:12", "ultrasonic:TRIG", "purple", [ "*", "v4" ] ],
    [ "uno:5V", "ultrasonic:VCC", "red", [ "v16", "h-96", "*", "v12" ] ]
}
```

## **Circuit Diagram**



# **Output:**

