ASSIGNMENT 4

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| DATE | 19th September |
| STUDENT NAME | KALAISELVI S |
| STUDENT ROLL NUMBER | 917719C040 |
| MAXIMUM MARKS | 2 MARKS |

**QUESTION:**

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.

**LINK:**

<https://wokwi.com/projects/347139072983040596>

**SOLUTION:**

Sketch.ino

void setup() {

// put your setup code here, to run once:

Serial.begin(115200);

Serial.println("Hello, ESP32!");

}

void loop() {

// put your main code here, to run repeatedly:

delay(10); // this speeds up the simulation

}

Diagram.json

{

"version": 1,

"author": "19C040\_KALAISELVI S",

"editor": "wokwi",

"parts": [

{ "type": "wokwi-esp32-devkit-v1", "id": "esp", "top": -0.67, "left": 70.67, "attrs": {} },

{ "type": "wokwi-hc-sr04", "id": "ultrasonic1", "top": 0.63, "left": -154.17, "attrs": {} }

],

"connections": [

[ "esp:TX0", "$serialMonitor:RX", "", [] ],

[ "esp:RX0", "$serialMonitor:TX", "", [] ],

[ "ultrasonic1:GND", "esp:GND.2", "black", [ "v0" ] ],

[ "ultrasonic1:ECHO", "esp:D12", "green", [ "v0" ] ],

[ "ultrasonic1:TRIG", "esp:D13", "green", [ "v0" ] ],

[ "ultrasonic1:VCC", "esp:VIN", "red", [ "v0" ] ]

]

}

**SCREENSHOTS:**





