ASSIGNMENT-4

DISTANCE DETECTION USING ULTRASONIC SENSOR

Date: 22 October 2022
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Maximum Marks 2 Marks

Question1 :
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.

WOKWI LINK :
https://wokwi.com/projects/new/esp32

Code:
```
#define LED 2

void setup() {
 pinMode(LED, OUTPUT);
}

void loop() {
 digitalWrite(LED, HIGH);
 delay(500);
 digitalWrite(LED, LOW);
 delay(500);
}

{
 "version": 1,
 "author": "Uri Shaked",
 "editor": "wokwi",
 "parts": [
  { "type": "wokwi-esp32-devkit-v1", "id": "esp", "top": 0, "left": 0, "attrs": {} },
  {
   "type": "wokwi-led",
   "id": "led1",
```

```
      "top": -3.33,
      "left": 153.33,
      "attrs": { "color": "red" }
    },
    { "type": "wokwi-resistor", "id": "r1", "top": 85.33, "left": 110, "rotate": 90, "attrs": {} }
  ],
  "connections": [
    [ "esp:TX0", "$serialMonitor:RX", "", [] ],
    [ "esp:RX0", "$serialMonitor:TX", "", [] ],
    [ "esp:GND.1", "led1:C", "black", [ "h0" ] ],
    [ "led1:A", "r1:1", "green", [ "v0" ] ],
    [ "r1:2", "esp:D2", "green", [ "h0", "v38" ] ]
  ]
}
```