

ASSIGNMENT 4

DATE	19th September
STUDENT NAME	LAVANYA R
STUDENT ROLL NUMBER	917719C048
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:



