

Assignment -4

Assignment Date	28 October 2022
Student Name	Mr. M. Karunanithi
Student Roll Number	510119106701
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.

Code:

```
#define PIN_TRIG 11
#define PIN_ECHO 8

void setup() {
  Serial.begin(115200);
  pinMode(PIN_TRIG, OUTPUT);
  pinMode(PIN_ECHO, INPUT);
}

void loop() {
  digitalWrite(PIN_TRIG, HIGH);
  delayMicroseconds(10);
  digitalWrite(PIN_TRIG, LOW);
  int d = (pulseIn(PIN_ECHO, HIGH))/58;
  Serial.print("Distance in CM: ");
  Serial.println(d);
  if(d < 100){
    Serial.println("Alert");
  }
  delay(1000);
}
```

Wokwi link: [sketch.ino - Wokwi Arduino and ESP32 Simulator](#)

