## Assignment -4

Assignment Date	25.10.2022
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Maximum marks	2 marks

#### **Question:-**

Write a 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

Note:- I couldn't complete my assignment due to the issues in IBM cloud

### program code:-

#define ECHO PIN 2

```
#define TRIG_PIN 3

void setup() {
    Serial.begin(115200);
    pinMode(LED_BUILTIN, OUTPUT);
    pinMode(TRIG_PIN, OUTPUT);
    pinMode(ECHO_PIN, INPUT);
}

float readDistanceCM() {
    digitalWrite(TRIG_PIN, LOW);
    delayMicroseconds(2);
    digitalWrite(TRIG_PIN, HIGH);
    delayMicroseconds(10);
    digitalWrite(TRIG_PIN, LOW);
    int duration = pulseIn(ECHO_PIN, HIGH);
    return duration * 0.034 / 2;
}
```

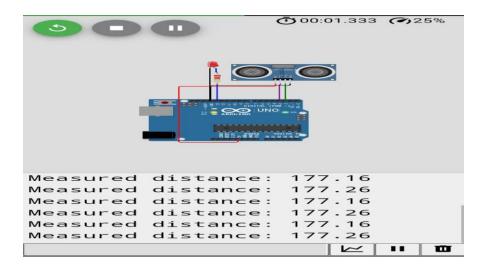
```
void loop() {
  float distance = readDistanceCM();

bool isNearby = distance < 100;
  digitalWrite(LED_BUILTIN, isNearby);

Serial.print("Measured distance: ");
  Serial.println(readDistanceCM());

delay(100);
}</pre>
```

# Output:-



#### Wokwi link: -

https://wokwi.com/projects/new/arduino-uno