

## ASSIGNMENT – 4

Write code and connections in wokwi for ultrasonic sensor. Whenever distance is less than 100 cm send alert to IBM cloud and display in device recent events. Upload document with wokwi share link and images of IBM cloud.

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```
const int trigpin =5;

const int echopin=18;

#define sound_speed 0.034 // cm/us

long duration;

float distance;

void setup() {

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

    Serial.begin(115200);

    pinMode(trigpin,OUTPUT);

    pinMode (echopin,INPUT);

}

void loop() {

    digitalWrite(trigpin,LOW);

    //delayMicroseconds(10);

    digitalWrite(trigpin,HIGH);

    delayMicroseconds(10);

    digitalWrite(trigpin,LOW);

    duration =pulseIn(echopin,HIGH);

    distance= duration*sound_speed/2;

    Serial.println("distance"+String (distance) +"cm");

    if(distance<100)

    {

        Serial.println("alert");

    }

}
```

else

Serial.println("no object near");

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

// this speeds up the simulation

}

