

<b>Date</b>	13 NOVEMBER 2022
<b>Team ID</b>	PNT2022TMID01874
<b>Project Name</b>	GAS LEAKAGE MONITORING AND ALERTING SYSTEM FOR INDUSTRIES

Code:

```

#define ECHO_PIN 2
#define TRIG_PIN 3
#define organization = "md8rdq"
#define deviceType = "123"
#define deviceId = "123456"
#define authMethod = "token"
#define authToken = "Titik@2002"

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();
    if(distance<=100)
    {
        Serial.println(" person detected");
    }
    else{
        Serial.print("Measured distance: ");
        Serial.println(readDistanceCM());
    }
}

```

```

delay(1000);
}

```

IBM Watson IoT Platform

Browse Action Device Types Interfaces

Search by Device ID

Device ID	Status	Device Type
123456	Disconnected	123

Identity Device Information Recent Events

The recent events listed show the live stream of data that is coming from the device.

Event	Value
event_1	{"randomNumber":92,"distance":11}
event_1	{"randomNumber":45,"distance":56}

Device Type: 123

Event type name: event\_1

Schedule: 1 Every Minute

Payload

```

{
  "randomNumber": random(0, 100),
  "distance": random(0, 150)
}

```

Upload a CSV file

What functions can I apply?

IBM Watson IoT Platform

Browse Action Device Types Interfaces

Search by Device ID

Device ID	Status	Device Type
123456	Disconnected	123

Identity Device Information Recent Events

Device ID: 123456

Device Type: 123

Date Added: Nov 1, 2022 3:43 PM

Added By: titiksha.ec19@bitsathy.ac.in

Connection Status: Disconnected

Device Type: 123

Event type name: event\_1

Schedule: 1 Every Minute

Payload

```

{
  "randomNumber": random(0, 100),
  "distance": random(0, 150)
}

```

Upload a CSV file

What functions can I apply?

