PUBLISH DATA INTO IBM CLOUD

DATE	NOV 10TH 2022
TEAM ID	PTN2022TMID21083
TOPIC	GAS LEAKAGE MONITORING AND DETECTION FOR INDUSTRIES

```
#define ECHO_PIN 2

#define TRIG_PIN 3

#define organization = "mr8rsq"

#define deviceType = "123"

#define deviceId = "123456"

#define authMethod = "token"

#define authToken = "Nakshatra@09"

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);

}
```