

## Assignment - 4

Team ID	PNT2022TMID38234
Project Name	Gas leakage monitoring and alerting system for industries

### Program:

```
#define ECHO_PIN 2
#define TRIG_PIN 3
#define organization ="m040km"
#define deviceType=" Arduino"
#define deviceId ="12345"
#define authMethod ="use-token-auth"
#define authToken ="2YvKHr)ujgdHS7y?dM"
void setup() {
// put your setup code here, to run once:
Serial.begin(9600);
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() {
// put your main code here, to run repeatedly:
float distance = readDistanceCM();
```

```

if(distance <= 100)
{
  Serial.println("person detected ");
}
else{
  Serial.print("Measured distance: ");
  Serial.println(readDistanceCM());
}
delay(1000);
}

```

Project link:

<https://wokwi.com/projects/347835319990616659>

**Program and circuit:**

