**ULTRA SONIC SENSOR CODE**

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| **Date** | 22 October 2022 |
| **Team ID** | PNT2022TMID51469 |
| **Project name** | Gas Leakage Monitoring &Alerting System For Industries |

#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("alert\n");

//Serial.println(readDistanceCM());

delay(100);

}