

ASSIGNMENT-4

Date	26 October 2022
Team ID	PNT2022TMID47356
Project Name	Industry-Specific Intelligent Fire Management System
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CODE:

```
#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("Measured distance: ");

    Serial.println(readDistanceCM());

    delay(100);
}

```

CIRCUIT:

