ASSIGNMENT-4

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

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: