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#include <LiquidCrystal.h> //LCD library

#define echo 2

#define trig 3

float duration;

float distance;

int sensor_Input;

float temp;// oneway distance travelled by the pulse

LiquidCrystal lcd(13, 12, 11, 10, 9, 8);//lcd(RS,EN,D4,D5,D6,D7)

void setup() {

    pinMode(trig, OUTPUT);

    pinMode(echo, INPUT);

    Serial.begin(9600);

    lcd.begin(16, 2);

}

void loop() {

    time_Measurement();

    distance = duration * (0.0343) / 2;// calculate the oneway distance travelled by the pulse

    display_distance();

    measure_Temp();

}
```

```

void time_Measurement()
{
    digitalWrite(trig, LOW);
    delayMicroseconds(2);
    digitalWrite(trig, HIGH);
    delayMicroseconds(10);
    digitalWrite(trig, LOW);
    duration = pulseIn(echo, HIGH);
}

void measure_Temp()
{
    sensor_Input = analogRead(A0);
    temp = (float)sensor_Input / 1024;
    temp = temp * 5;
    temp = temp - 0.5;
    temp = temp * 100;
    Serial.print("Temp in C: ");
    Serial.print(temp);
    Serial.println();
}

void display_distance()
{
    Serial.print("Distance in Cm: ");
    Serial.print(distance);
    Serial.println();
    delay(1000);
}

```