```
#include <LiquidCrystal.h>


 #define echo 2

 #define trig 3


 float  duration;

 float  distance;

int sensor_Input;

 float temp;


 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;

  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);

}
```