

```
#define echo 2
#define trig 3

float duration; // time taken by the pulse to return back
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);
```

#include <LiquidCrystal.h> //LCD library

```
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()
{ //function to measure the time taken by the pulse to return back
  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;
```