```
// YWROBOT
// Compatible with the Arduino IDE 1.0
// Library version:1.1
#include <LiquidCrystal_I2C.h>


LiquidCrystal_I2C lcd(0x27,20,4);
// set the LCD address to 0x27 for a 16 chars and 2 line display


float cm;
float inches;


long readUltrasonicDistance(int triggerPin, int echoPin)
{
        pinMode(triggerPin, OUTPUT);  // Clear the trigger
        digitalWrite(triggerPin, LOW);
        delayMicroseconds(2);
        // Sets the trigger pin to HIGH state for 10 microseconds
        digitalWrite(triggerPin, HIGH);
        delayMicroseconds(10);
        digitalWrite(triggerPin, LOW);
        pinMode(echoPin, INPUT);
        // Reads the echo pin, and returns
        // the sound wave travel time in microseconds
        return pulseIn(echoPin, HIGH);
}


void setup()
{
```

```arduino
  Serial.begin(9600);

 lcd.init();          // initialize the lcd
 // Print a message to the LCD.
 lcd.backlight();
 lcd.print("--> Distance <--");
        delay(3000);
        lcd.clear();
}


void loop()
{
  cm = 0.0344/2 * readUltrasonicDistance(3, 2);
        inches = (cm / 2.54);
 /*
        Serial.print("Inches ");
        Serial.print(inches, 1);
        Serial.print("\t");
  Serial.print("cm ");
        Serial.println(cm, 1);
        */
        lcd.setCursor(0,0);
        lcd.print("Inches");
        lcd.setCursor(4,0);
        lcd.setCursor(12,0);
        lcd.print("cm");
        lcd.setCursor(1,1);
        lcd.print(inches, 1);
        lcd.setCursor(11,1);
        lcd.print(cm, 1);
```

```
        lcd.setCursor(14,1);

        delay(2000);

        lcd.clear();

}
```