#include<LiquidCrystal.h>

LiquidCrystal lcd(7,6,5,4,3,2);

const int Sensor = A0;

byte degree\_symbol[8] =

 {

 0b00111,

 0b00101,

 0b00111,

 0b00000,

 0b00000,

 0b00000,

 0b00000,

 0b00000

 };

void setup()

{

 pinMode(Sensor, INPUT);

 lcd.begin(16,2);

 lcd.createChar(1, degree\_symbol);

 lcd.setCursor(0,0);

 lcd.print(" Digital ");

 lcd.setCursor(0,1);

 lcd.print(" Thermometer ");

 delay(4000);

 lcd.clear();

}

void loop()

{

 float temp\_reading=analogRead(Sensor);

 float temperature=temp\_reading\*(5.0/1023.0)\*100;

 delay(10);

 lcd.clear();

 lcd.setCursor(0,0);

 lcd.print("Temperature in C");

 lcd.setCursor(4,1);

 lcd.print(temperature);

 lcd.write(1);

 lcd.print("C");

 delay(1000);

}