#include "mbed.h"

#include "C12832.h"

#include "Sht31.h"

C12832 lcd(SPI\_MOSI, SPI\_SCK, SPI\_MISO, p8, p11);

Sht31 sht31(I2C\_SDA, I2C\_SCL);

DigitalOut led(LED1);

int main() {

 printf("Set the temperature above 25 degrees to trigger the warning LED\n");

 while (1) {

 lcd.cls();

 float temp = sht31.readTemperature();

 float humidity = sht31.readHumidity();

 lcd.locate(0, 3);// col,row

 lcd.printf("Temperature: %.2f C", temp);

 lcd.locate(3, 13);

 lcd.printf("Humidity: %.2f %%", humidity);

 // turn on LED if the temperature is above 25 degrees

 led = temp > 25.0f;

 wait(0.5f);

 }

}