#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);

}

}