

lok. cpp

```
#include <SPI.h>

#include <Wire.h>
#include "MAX30100_PulseOximeter.h"
#define LOGO_HEIGHT 16
#define LOGO_WIDTH 16
#define REPORTING_PERIOD_MS 1000
PulseOximeter pox;
uint32_t tsLastReport = 0;
void onBeatDetected()
{
    Serial.println("Beat!");
}
void setup()
{
    Serial.begin(9600);
    Serial.print("Initializing pulse oximeter..");
    if (!pox.begin()) {
        Serial.println("FAILED");
        for(;;);
    }
    else
    {
        Serial.println("SUCCESS");
    }
    pox.setOnBeatDetectedCallback(onBeatDetected);
}

void loop() {
    pox.update();
    if (millis() - tsLastReport > REPORTING_PERIOD_MS)
    {
        Serial.print("Heart BPM:");
        Serial.print(pox.getHeartRate());
        Serial.print("----");
        Serial.print("Oxygen Percent:");
        Serial.print(pox.getSpO2());
        Serial.println("\n");
        tsLastReport = millis();
    }
}
```

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