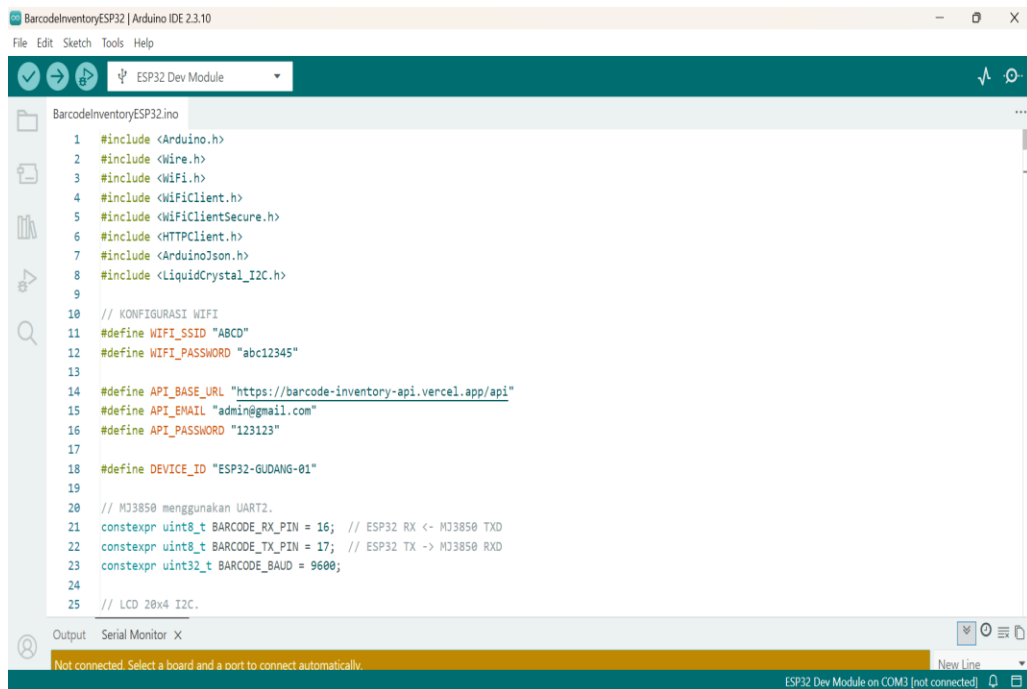
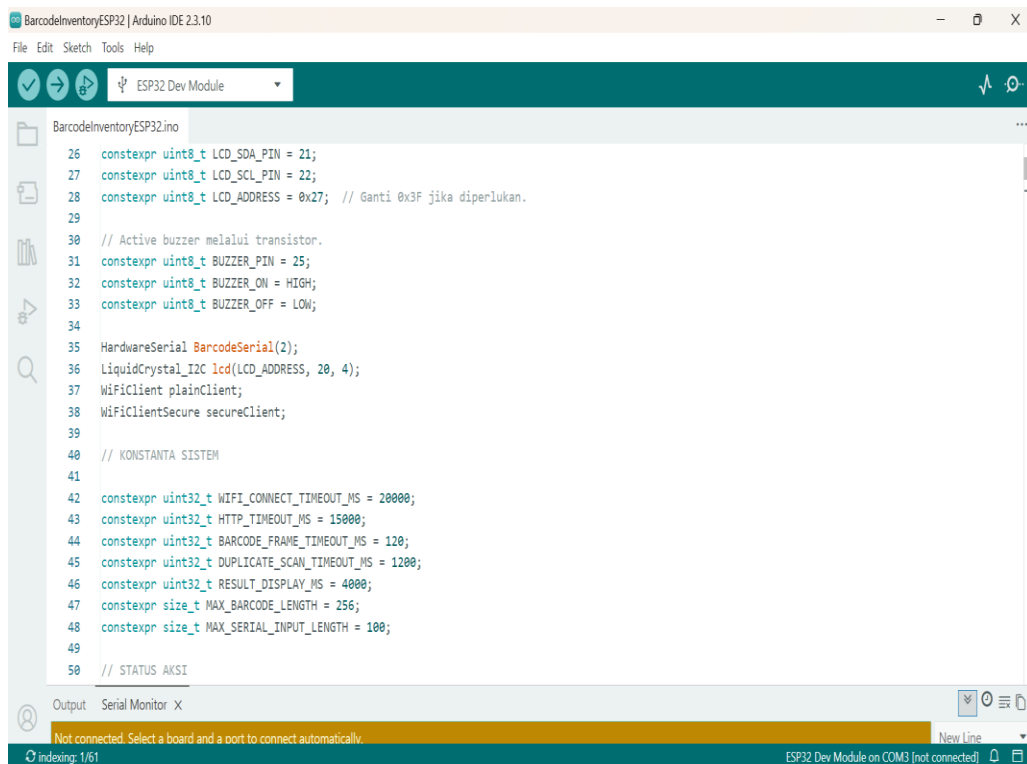


LAMPIRAN



```
BarcodeInventoryESP32.ino
1 #include <Arduino.h>
2 #include <Wire.h>
3 #include <WiFi.h>
4 #include <WiFiClient.h>
5 #include <WiFiClientSecure.h>
6 #include <HTTPClient.h>
7 #include <ArduinoJson.h>
8 #include <LiquidCrystal_I2C.h>
9
10 // KONFIGURASI WIFI
11 #define WIFI_SSID "ABCD"
12 #define WIFI_PASSWORD "abc12345"
13
14 #define API_BASE_URL "https://barcode-inventory-api.vercel.app/api"
15 #define API_EMAIL "admin@gmail.com"
16 #define API_PASSWORD "123123"
17
18 #define DEVICE_ID "ESP32-GUDANG-01"
19
20 // M3850 menggunakan UART2.
21 constexpr uint8_t BARCODE_RX_PIN = 16; // ESP32 RX <- M3850 TXD
22 constexpr uint8_t BARCODE_TX_PIN = 17; // ESP32 TX -> M3850 RXD
23 constexpr uint32_t BARCODE_BAUD = 9600;
24
25 // LCD 20x4 I2C.
```



```
BarcodeInventoryESP32.ino
26 constexpr uint8_t LCD_SDA_PIN = 21;
27 constexpr uint8_t LCD_SCL_PIN = 22;
28 constexpr uint8_t LCD_ADDRESS = 0x27; // Ganti 0x3F jika diperlukan.
29
30 // Active buzzer melalui transistor.
31 constexpr uint8_t BUZZER_PIN = 25;
32 constexpr uint8_t BUZZER_ON = HIGH;
33 constexpr uint8_t BUZZER_OFF = LOW;
34
35 HardwareSerial BarcodeSerial(2);
36 LiquidCrystal_I2C lcd(LCD_ADDRESS, 20, 4);
37 WiFiClient plainClient;
38 WiFiClientSecure secureClient;
39
40 // KONSTANTA SISTEM
41
42 constexpr uint32_t WIFI_CONNECT_TIMEOUT_MS = 20000;
43 constexpr uint32_t HTTP_TIMEOUT_MS = 15000;
44 constexpr uint32_t BARCODE_FRAME_TIMEOUT_MS = 120;
45 constexpr uint32_t DUPLICATE_SCAN_TIMEOUT_MS = 1200;
46 constexpr uint32_t RESULT_DISPLAY_MS = 4000;
47 constexpr size_t MAX_BARCODE_LENGTH = 256;
48 constexpr size_t MAX_SERIAL_INPUT_LENGTH = 100;
49
50 // STATUS AKSI
```

DOKUMENTASI

