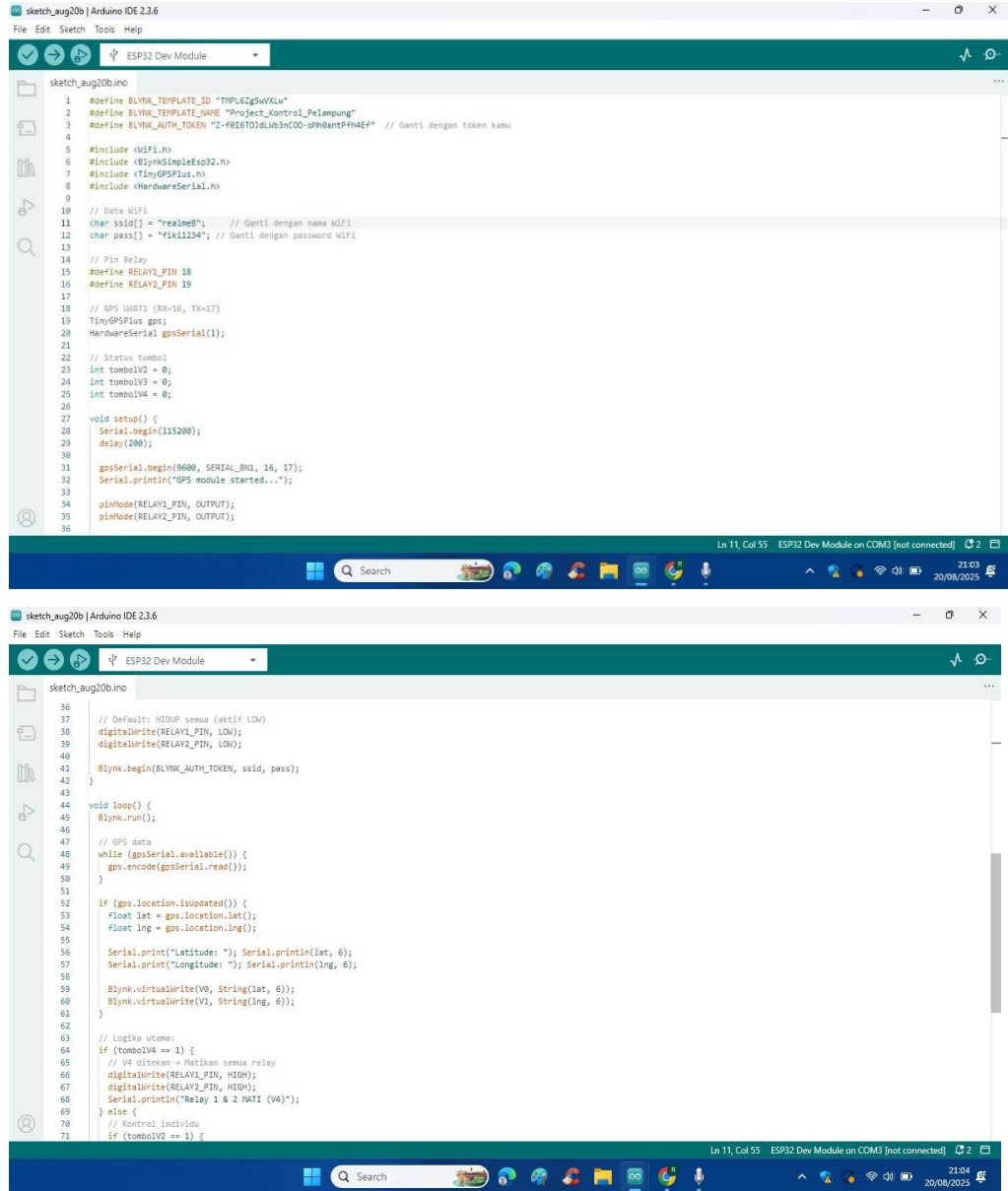


LAMPIRAN

Lampiran 1. Script Alat



```
sketch_aug20b.ino
1  #define BLYNK_TEMPLATE_ID "THPL62g5wXKw"
2  #define BLYNK_TEMPLATE_NAME "Project_Kontrol_Pelampung"
3  #define BLYNK_AUTH_TOKEN "2-F816T0JdLb3nC00-dPhBantPfh4Ef" // Ganti dengan token kamu
4
5  #include <WiFi.h>
6  #include <BlynkSimpleEsp32.h>
7  #include <TinyGPSPlus.h>
8  #include <HardwareSerial.h>
9
10 // Data Wifi
11 char ssid[] = "realme8"; // Ganti dengan nama Wifi
12 char pass[] = "fik11234"; // Ganti dengan password Wifi
13
14 // Pin Relay
15 #define RELAY1_PIN 18
16 #define RELAY2_PIN 19
17
18 // GPS UART1 (RX=16, TX=17)
19 TinyGPSPlus gps;
20 HardwareSerial gpsSerial(1);
21
22 // Status tombol
23 int tombolV2 = 0;
24 int tombolV3 = 0;
25 int tombolV4 = 0;
26
27 void setup() {
28   Serial.begin(115200);
29   delay(200);
30
31   gpsSerial.begin(9600, SERIAL_8N1, 16, 17);
32   Serial.println("GPS module started...");
33
34   pinMode(RELAY1_PIN, OUTPUT);
35   pinMode(RELAY2_PIN, OUTPUT);
36
37   // Default: HIDUP semua (aktif LOW)
38   digitalWrite(RELAY1_PIN, LOW);
39   digitalWrite(RELAY2_PIN, LOW);
40
41   Blynk.begin(BLYNK_AUTH_TOKEN, ssid, pass);
42 }
43
44 void loop() {
45   Blynk.run();
46
47   // GPS data
48   while (gpsSerial.available()) {
49     gps.encode(gpsSerial.read());
50   }
51
52   if (gps.location.isUpdated()) {
53     float lat = gps.location.lat();
54     float lng = gps.location.lng();
55
56     Serial.print("Latitude: "); Serial.print(lat, 6);
57     Serial.print("Longitude: "); Serial.print(lng, 6);
58
59     Blynk.virtualWrite(V0, String(lat, 6));
60     Blynk.virtualWrite(V1, String(lng, 6));
61   }
62
63   // Logika utama:
64   if (tombolV4 == 1) {
65     // Mekanisme + Matikan semua relay
66     digitalWrite(RELAY1_PIN, HIGH);
67     digitalWrite(RELAY2_PIN, HIGH);
68     Serial.println("Relay 1 & 2 MATI (V4)");
69   } else {
70     // Kontrol individu
71     if (tombolV2 == 1) {
```

```

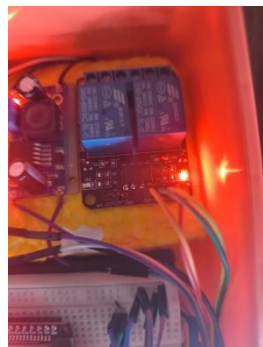
sketch_aug06_euro
// V0 ditaman = Relais semua relay
46 digitalWrite(RELAY_P2H, HIGH);
47 digitalWrite(RELAY_P2H, LOW);
48 Serial.println("Relay 1 & 2 N012 (V0)");
49 } else {
50 // Relais semua relay
51 if (comb02 == 1) {
52 digitalWrite(RELAY_P2H, HIGH); // Rel1
53 Serial.println("Relay 1 N012 (V0)");
54 } else {
55 digitalWrite(RELAY_P2H, LOW); // Rel2
56 }
57 }
58 if (comb03 == 1) {
59 digitalWrite(RELAY_P2H, HIGH); // Rel3
60 Serial.println("Relay 2 N012 (V0)");
61 } else {
62 digitalWrite(RELAY_P2H, LOW); // Rel4
63 }
64 }
65 }
66 // V1 = Relay 1 N012
67 digitalWrite(V1, LOW);
68 pinMode(V1, OUTPUT);
69 }
70 // V2 = Relay 2 N012
71 digitalWrite(V2, LOW);
72 pinMode(V2, OUTPUT);
73 }
74 // V3 = Relais semua relay
75 digitalWrite(V3, LOW);
76 pinMode(V3, OUTPUT);
77 }

```

Lampiran 2. Alat



Gambar Alat



Tombol Kanan



Tombol Kiri



Tombol Maju



Tombol Normal