LAMPIRAN

Lampiran 1 *Sourcecode* pembacaan sensor dan pengiriman data ke *server* pada modul *wi-fi*

```
#include <Arduino.h>
#include <ESP8266WiFi.h>
#include <ESP8266WiFiMulti.h>
#include <ESP8266HTTPClient.h>
#include <WiFiClient.h>

ESP8266WiFiMulti WiFiMulti;

void setup() {

  Serial.begin(115200);
  Serial.setDebugOutput(true);

  Serial.println();
  Serial.println();
  Serial.println();

  for (uint8_t t = 4; t > 0; t--) {
    Serial.printf("[SETUP] WAIT %d...\n", t);
    Serial.flush();
    delay(1000);
  }

  WiFi.mode(WIFI_STA);
  WiFiMulti.addAP("SPASy", "12345678");
```

```
  pinMode(D0, INPUT);
  pinMode(D1, INPUT);
  pinMode(D2, INPUT);
  pinMode(D3, INPUT);
  pinMode(D4, INPUT);
  pinMode(D5, INPUT);
  pinMode(D6, INPUT);
  pinMode(D7, INPUT);
  pinMode(D8, INPUT);



}

void loop() {
  // wait for WiFi connection
  if ((WiFiMulti.run() == WL_CONNECTED)) {

       int ap1;
       int ap2;
       int ap3;
       int ap4;
       int ap5;
       int ap6;
       int ap7;
       int ap8;
       int ap9;

   //AP1
  if(digitalRead(D0) == HIGH) {
    Serial.print("ap1= ");
```

```
    Serial.print("1");
    ap1=1;
    } else {
    Serial.print("ap1= ");
    Serial.print("0");
    ap1=0;
  }

  Serial.println("");

  //AP2
  if(digitalRead(D5) == HIGH) {
    Serial.print("ap2= ");
    Serial.print("1");
    ap2=1;
    } else {
    Serial.print("ap2= ");
    Serial.print("0");
    ap2=0;
  }

  Serial.println("");

  //AP3
  if(digitalRead(D6) == HIGH) {
    Serial.print("ap3= ");
    Serial.print("1");
    ap3=1;
    } else {
    Serial.print("ap3= ");
```

```
    Serial.print("0");
    ap3=0;
  }

  Serial.println("");

  //AP4
  if(digitalRead(D7) == HIGH) {
    Serial.print("ap4= ");
    Serial.print("1");
    ap4=1;
    } else {
    Serial.print("ap4= ");
    Serial.print("0");
    ap4=0;
  }

  Serial.println("");

  //AP5
  if(digitalRead(D8) == HIGH) {
    Serial.print("ap5= ");
    Serial.print("1");
    ap5=1;
    } else {
    Serial.print("ap5= ");
    Serial.print("0");
    ap5=0;
  }
```

```
  Serial.println("");

  //AP6
  if(digitalRead(D1) == HIGH) {
    Serial.print("ap6= ");
    Serial.print("1");
    ap6=1;
    } else {
    Serial.print("ap6= ");
    Serial.print("0");
    ap6=0;
  }

  Serial.println("");

  //AP7
  if(digitalRead(D2) == HIGH) {
    Serial.print("ap7= ");
    Serial.print("1");
    ap7=1;
    } else {
    Serial.print("ap7= ");
    Serial.print("0");
    ap7=0;
  }

  Serial.println("");

  //AP8
  if(digitalRead(D3) == HIGH) {
```

```
    Serial.print("ap8= ");
    Serial.print("1");
    ap8=1;
    } else {
    Serial.print("ap8= ");
    Serial.print("0");
    ap8=0;
  }

  Serial.println("");

  //AP9
  if(digitalRead(D4) == HIGH) {
    Serial.print("ap9= ");
    Serial.print("1");
    ap9=1;
    } else {
    Serial.print("ap9= ");
    Serial.print("0");
    ap9=0;
  }



    WiFiClient client;
    HTTPClient http;

//Serial.print("[HTTP] begin...\n");
 Serial.println("");

 String dan, a, b, c, d, e, f, g, h, i ;
```

```
 dan = "&";
 a = "ap1="+String(ap1);
 b = "&ap2="+String(ap2);
 c = "&ap3="+String(ap3);
 d = "&ap4="+String(ap4);
 e = "&ap5="+String(ap5);
 f = "&ap6="+String(ap6);
 g = "&ap7="+String(ap7);
 h = "&ap8="+String(ap8);
 i = "&ap9="+String(ap9);


    if (http.begin(client, "http://192.168.0.151/web/wpu-
login/arduino/sensor_ldr/test5/test5.php?"+a+dan+b+dan+c+dan+d+dan+e
+dan+f+dan+g+dan+h+dan+i  ))


    {// HTTP


 //     Serial.print("[HTTP] GET...\n");
      // start connection and send HTTP header
      int httpCode = http.GET();


      // httpCode will be negative on error
      if (httpCode > 0) {
        // HTTP header has been send and Server response header has
been handled
 //       Serial.printf("[HTTP] GET... code: %d\n", httpCode);


        // file found at server
        if (httpCode == HTTP_CODE_OK || httpCode ==
HTTP_CODE_MOVED_PERMANENTLY) {
          String payload = http.getString();
          Serial.println(payload);
```

```
          Serial.println("");
        }
      } else {
        Serial.printf("[HTTP] GET... failed, error: %s\n",
http.errorToString(httpCode).c_str());
      }

      http.end();
     // delay(1000);
    } else {
      Serial.printf("[HTTP} Unable to connect\n");
    }

  }

  delay(250);
}
```