

## Daftar Pustaka

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## Lampiran 1

### Kode Program

```
#include <ESP8266Webhook.h>
#include <ESP8266WiFi.h>
#include <Wire.h>
#include <LiquidCrystal_I2C.h>

LiquidCrystal_I2C
lcd(0x27, 16, 2);

const char* ssid =
"Mirakade";
const char* password =
"miralagi";
const char* resource =
"/trigger/Telunjuk_ditekan/json
/with/key/lBKyGEJ6G3PgyAS
9ORZ2D3GpfycC-
gbi4lKtICyoE9O";

//variabel
const int buzzer = 15;
int BUTTON = 14;
//Telunjuk D5
int jari1 = 12; //jari tengah
kuning D6
int jari2 = 13; //jari manis
oren D7

int jari3 = 16; //Telunjuk
bawah biru D0
int jari4 = 0; //jari tengah
bawah abu-abu D3
int jari5 = 2; //jari manis
bawah coklat D4
int kondisi1=1; //Ya
int kondisi2=1; //Tidak
int kondisi3=1; //Sekarang
Jam berapa?
int kondisi4=1; //Saya mau
makan
int kondisi5=1; //saya mau
minum
int buzzerstate=LOW;
int keyIndex = 0; // your
network key Index number
(needed only for WEP)
const char* server =
"maker.ifttt.com";

void setup(){
Serial.begin(9600);
initWifi();
pinMode(BUTTON,INPUT
_PULLUP);
```



```

pinMode(buzzer,
OUTPUT);
pinMode(jari1,
INPUT_PULLUP);
pinMode(jari2,
INPUT_PULLUP);
pinMode(jari3,
INPUT_PULLUP);
pinMode(jari4,
INPUT_PULLUP);
pinMode(jari5,
INPUT_PULLUP);
lcd.begin(16,2);
lcd.init();
lcd.clear();
lcd.backlight();
}

void loop(){
kondisi1=digitalRead(jari1);
if(kondisi1==0){
digitalWrite(buzzer,HIGH);
delay (500);
digitalWrite(buzzer,LOW);
}
lcd.clear();
lcd.setCursor(1,0);
lcd.print("Pasien
berkata:");
lcd.setCursor(6,1);
lcd.print("Ya");
delay(4000);
lcd.clear();
lcd.backlight();
}

}

kondisi2=digitalRead(jari2);
if(kondisi2==0){
digitalWrite(buzzer,HIGH);
delay (500);
digitalWrite(buzzer,LOW);

}
lcd.clear();
lcd.setCursor(1,0);
lcd.print("Pasien
berkata:");
lcd.setCursor(6,1);
lcd.print("Tidak");
delay(4000);
lcd.clear();
lcd.backlight();
}

}

kondisi3=digitalRead(jari3);

```



```

if(kondisi3==0){
    lcd.print("Saya Mau
Makan");
    delay(4000);
    lcd.clear();
    lcd.backlight();
}

```



```

lcd.clear();
lcd.setCursor(1,0);
lcd.print("Saya Mau
Ke");
lcd.setCursor(1,1);
lcd.print("Kamar
Mandi?");
delay(4000);
lcd.clear();
lcd.backlight();
}

kondisi5=digitalRead(jari5);
if(kondisi5==0){
    digitalWrite(buzzer,HIGH);
    delay (500);
    digitalWrite(buzzer,LOW);

    lcd.clear();
    lcd.setCursor(1,0);
    lcd.print("Saya Mau
Minum");
    delay(4000);
    lcd.clear();
    lcd.backlight();

    if(digitalRead(BUTTON)
== LOW){

        lcd.clear();
        lcd.setCursor(1,0);
        digitalWrite(buzzer,HIGH);
        delay (1500);
    }
}

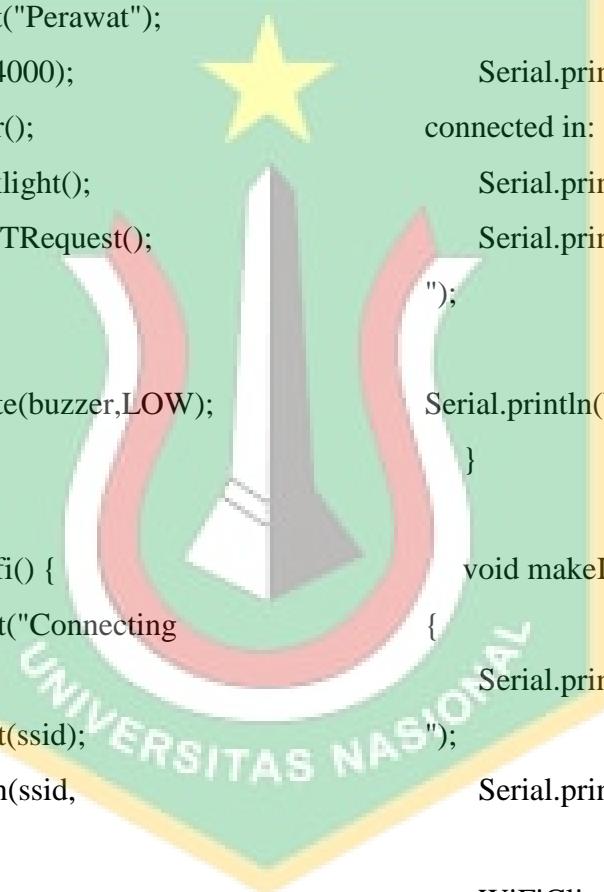
```

```

        Serial.println("");
digitalWrite(buzzer,LOW);
lcd.clear();
lcd.setCursor(0,0);
lcd.print("Pasien
Memanggil");
lcd.setCursor(0,1);
lcd.print("Perawat");
delay(4000);
lcd.clear();
lcd.backlight();
makeIFTTTRequest();
}
else{
digitalWrite(buzzer,LOW);
}
void initWifi() {
Serial.print("Connecting
to: ");
Serial.print(ssid);
WiFi.begin(ssid,
password);
int timeout = 10 * 4;
while(WiFi.status() !=
WL_CONNECTED &&
(timeout-- > 0)) {
delay(250);
Serial.print(".");
}
if(WiFi.status() !=

WL_CONNECTED) {
Serial.println("Failed to
connect, going back to sleep");
}
Serial.print("WiFi
connected in: ");
Serial.print(millis());
Serial.print(", IP address:
");
Serial.println(WiFi.localIP());
}
void makeIFTTTRequest()
{
Serial.print("Connecting to
");
Serial.print(server);
WiFiClient client;
int retries = 5;
while(!client.connect(server,
80) && (retries-- > 0)) {
Serial.print(".");
}
Serial.println();
}

```

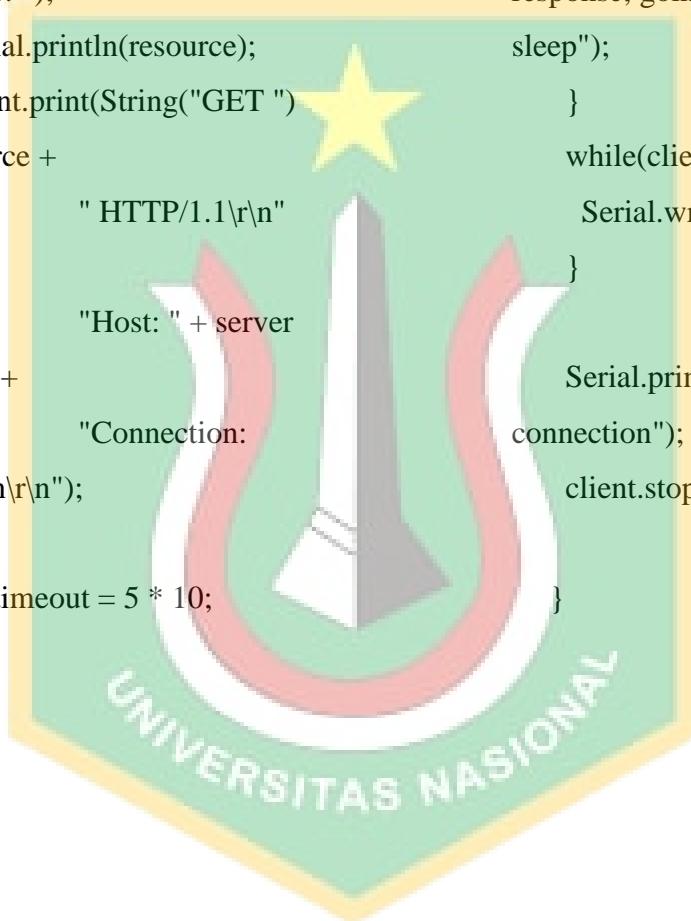


```

if(!client.connected()) {
    Serial.println("Failed to
connect, going back to sleep");
}

Serial.print("Request
resource: ");
Serial.println(resource);
client.print(String("GET ")
+ resource +
" HTTP/1.1\r\n"
+ "Host: " + server
+ "\r\n" +
"Connection:
close\r\n\r\n");
int timeout = 5 * 10;
while(!client.available())
&& (timeout-- > 0)){
delay(100);
}
if(!client.available()) {
Serial.println("No
response, going back to
sleep");
}
while(client.available()){
Serial.write(client.read());
}
Serial.println("\nclosing
connection");
client.stop();
}

```



# TURNITIN MIRA

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