LISTING PROGRAM

Program ping esp8266

```
#include <Wire.h>
#include <ESP8266WiFi.h>
#include <BlynkSimpleEsp8266.h>
#define POMPA D2
#define signal D3         //SIG sensor PING di PIN D3



char auth[] = "bf4afe6792e64729b42edcfe8c9df7a0";

char ssid[] = "OPPO 1201";      //SSID HOTSPOT NAME
char pass[] = "12345678";   //SSID HOTSPOT PASSWORD

WidgetLCD lcd(V0);          //WIDGET VIRTUAL LCD DI BLYNK APP

int distance;
unsigned long pulseduration=0;

void setup()
{
  pinMode(signal, OUTPUT);
  pinMode(POMPA, OUTPUT);
```

```
  Blynk.begin(auth, ssid, pass);
}

void measureDistance()
{
 // set pin as outpput so we can send a pulse
 pinMode(signal, OUTPUT);
// set output to LOW
 digitalWrite(signal, LOW);
 delayMicroseconds(5);

 // now send the 5uS pulse out to activate Ping)))
 digitalWrite(signal, HIGH);
 delayMicroseconds(5);
 digitalWrite(signal, LOW);

 // now we need to change the digital pin
 // to input to read the incoming pulse
 pinMode(signal, INPUT);

 // finally, measure the length of the incoming pulse
 pulseduration=pulseIn(signal, HIGH);
}

void loop()
```

```
{
 measureDistance();

 lcd.clear();
 lcd.print(0, 0, "JARAK :   CM");
 lcd.print(0, 1, "STATUS :");

 pulseduration=pulseduration/2;

 distance = int(pulseduration/29);

 if (distance <= 20)
 {

  digitalWrite(POMPA,1); //POMPA mati
  lcd.print(8, 1, "PENUH");

 }

 else if (distance > 20 && distance < 80)
 {

  lcd.print(8, 1, "SETENGAH");
 }
 else
```

```
  {
    digitalWrite(POMPA, 0); //POMPA nyala
    lcd.print(8, 1, "HABIS");
    Blynk.notify ("Air Habis");
  }
  lcd.print(8, 0, distance);
  Blynk.run();
  delay(1000);

}
```