

LAMPIRAN

Listing Program

```
$regfile = "m16def.dat"
```

```
$crystal = 8000000
```

```
$baud = 9600
```

```
Config Portb = Output
```

```
'Deklarasi Pin LCD
```

```
Config Lcdpin = Pin , Db4 = Portb.2 , Db5 = Portb.3 , Db6 = Portb.4 , Db7 = Portb.5 , E =  
Portb.1 , Rs = Portb.0
```

```
Config Lcd = 16 * 2
```

```
Cursor Off
```

```
Config Portc.0 = Output
```

```
'Deklarasi Pin Relay
```

```
Config Portc.1 = Output
```

```
Config Portc.2 = Output
```

```
Config Portd.2 = Output
```

```
Pompa1 Alias Portc.0
```

```
Pompa2 Alias Portc.1
```

```
Lampu Alias Portc.2
```

```
Kipas Alias Portd.2
```

```
Config Adc = Single , Prescaler = Auto , Reference = Internal
```

```
'Deklarasi ADC
```

```
Dim Suhu As Byte , Ph As Byte
```

```
Locate 1 , 1
```

```
'Tampilan Pembukaan
```

```
Lcd "HIDROPONIK CABE"
```

Locate 2 , 1

Lcd "TANAMAN BY HENI"

Wait 1

Cls

Awal:

'Coding Baca PH

Do

Lampu = 0

Kipas = 0

Start Adc

Ph = Getadc(0)

Suhu = Getadc(4)

Locate 1 , 1

Lcd "Adc" ; Suhu

Locate 1 , 7

Lcd "SuhuNormal"

Locate 2 , 1

Lcd "Adc" ; Ph

Locate 2 , 7

Lcd "PH Nutrisi"

Waitms 500

Cls

Loop Until Ph >= 110

Ganti_air:

'Coding Siklus ganti air

'Ganti Air Nutrisi

Pompa1 = 1

Pompa2 = 0

Lcd "Keluarkan Air"

Wait 150

Cls

Pompa1 = 0

Pompa2 = 1

Lcd "Masukkan Air"

Wait 80

Cls

Pompa1 = 0

Pompa2 = 0

Lanjutan:

'Coding baca suhu

Do

Start Adc

Ph = Getadc(0)

Suhu = Getadc(4)

Locate 1 , 1

Lcd "Adc" ; Suhu

Locate 1 , 7

Lcd "SuhuNormal"

Locate 2 , 1

Lcd "Adc" ; Ph

Locate 2 , 7

Lcd "PH Nutrisi"

Waitms 500

Cls

If Suhu <= 50 Then Gosub Suhu_dingin

If Suhu >= 81 Then Gosub Suhu_panas

Lampu = 0

Kipas = 0

Loop

Suhu_dingin:

'Coding Aktifkan Pemanas

'Suhu Dingin

Lampu = 1

Kipas = 0

Do

Start Adc

Suhu = Getadc(4)

Locate 1 , 1

Lcd "Suhu Dingin!!!"

Waitms 500

Cls

Loop Until Suhu > 61

Goto Lanjutan

Suhu_panas:

'Coding Aktifkan Pendingin

'Suhu Panas

Lampu = 0

Kipas = 1

Do

Start Adc

Suhu = Getadc(4)

Locate 1 , 1

Lcd "Suhu Panas!!!"

Waitms 500

Cls

Loop Until Suhu < 81

Goto Lanjutan