

CODE:

```
#include <LiquidCrystal.h>

const int rs = 13, en =12, d4 =11, d5 =10, d6 =9, d7
=8;

LiquidCrystal lcd(rs, en, d4, d5, d6, d7);

const int TEMPERATURE_PIN = A0; // Analog
input pin

const int HUMIDITY_PIN = A1; // Analog input pin

const int LDR_PIN = A2; // Analog input pin

const int SOILMOITURE_PIN = A3; // Analog input
pin

const int motorpin = A4;

// the number of the LED p

int Temperature_value =
0,Soil_value=0,Humidity_value=0,Ldr_value=0;

int sec1=0,tst1=0;

int s;

void setup()

{

Serial.begin(115200); // Set it according to your esp's
baudrate. Different esp's have different
baud rates.

pinMode(motorpin, OUTPUT);

pinMode(7, INPUT);

lcd.begin(16, 2);

// Print a messageeto the LCD.

lcd.setCursor(0, 0);

lcd.print(" Welcome To ");

// (note: line 1 is the second row, since counting
begins with 0):

lcd.setCursor(0, 1);

// Print a message to the LCD.

lcd.print("SMART FORMING SYS ");

// initialize serial:
```

```

delay(5000);

}

void loop()

{

    lcd.clear();

    s=digitalRead(7);

    Temperature_value =
analogRead(TEMPERATURE_PIN);

    Soil_value = digitalRead(SOILMOITURE_PIN);

    Humidity_value = analogRead(HUMIDITY_PIN);

    Ldr_value = analogRead(LDR_PIN);

    Serial.println( Temperature_value);

    Send_Wifi();

    if(s==0)

    {

        Digital Write(motorpin,1);

    }

    if(s==1)

    {

        Digital Write(motorpin,0);

    }

    if( Temperature_value>950)

    {

        Digital Write(motorpin,1);

    }

    If ( Temperature_value<950)

    {

        digitalWrite(motorpin,0);

    }

}

void Send_Wifi()

{

```

```

Serial.print("AT\r\n");

delay(1000);

Serial.print("AT+CWMODE=3\r\n");

delay(2000);

Serial.print("AT+CIPMUX=1\r\n");

delay(2000);


Serial.print("AT+CWJAP=\"VITS\", \"12345678\"\\
r\n"); //ssid and password

delay(10000);

Serial.print("AT+CIPSTART=4,\"TCP\", \"184.106
.153.149\",80\r\n");

delay(5000);

Serial.print("AT+CIPSEND=4,106\r\n");

delay(3000);

Serial.print("GET
/update?key=LGCHCXT0A9H3XP50&field1=");

UARTWriteInt(Temperature_value,4);

Serial.print("&field2=");

UARTWriteInt( Soil_value,4);

Serial.print("&field3=");

UARTWriteInt( Humidity_value,4);

Serial.print("&field4=");

UARTWriteInt( Ldr_value,4);

delay(300);

Serial.print("\r\n");

}

void UARTWriteInt(long val,unsigned int
field_length)

{

char str[10]={0,0,0,0,0,0,0,0,0,0};

int i=9,j=0;

while(val)

```

```
{  
str[i]=val%10;  
val=val/10;  
i--;  
}  
j=10-field_length;  
if(val<0) Serial.write(' ');  
for(i=j;i<10;i++)  
{  
  
Serial.write(48+str[i])
```