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])
```