

CODE:

```
#define BLYNK_PRINT Serial
#include <SPI.h>
#include <ESP8266WiFi.h>
#include <BlynkSimpleEsp8266.h>
#include <SimpleTimer.h>
#include <DHT.h>
#define SOIL_LIMIT 600
int mopin = A0;
int PUMP_PIN=D0;
int value;

// You should get Auth Token in the Blynk App.
// Go to the Project Settings (nut icon).
char auth[] =
"f7a3fa3760754d1da0ab852423b6b994";

// Your WiFi credentials.
// Set password to "" for open networks.
char ssid[] = "Honor 6X_AAB2";
char pass[] = "9c00c11ekmcl";

#define DHTPIN 2      // What digital pin we're
connected to

#define DHTTYPE DHT11  // DHT 11

DHT dht(DHTPIN, DHTTYPE);
SimpleTimer timer;

// This function sends Arduino's up time every
second to Virtual Pin (5).
// In the app, Widget's reading frequency should
be set to PUSH. This means
// that you define how often to send data to Blynk
App.
void sendSensor()
{
    float h = dht.readHumidity();
    float t = dht.readTemperature(); // or
dht.readTemperature(true) for Fahrenheit

    if (isnan(h) || isnan(t)) {
        Serial.println("Failed to read from DHT
sensor!");
        return;
    }
    // You can send any value at any time.
    // Please don't send more that 10 values per
second.
    Serial.print(h);
    Serial.print(t);
    Blynk.virtualWrite(V5, h);
```

```
Blynk.virtualWrite(V6, t);
}

void setup()
{
    Serial.begin(9600); // See the connection status
in Serial Monitor
    Blynk.begin(auth, ssid, pass);
    pinMode(mopin,INPUT);// put your setup code
here, to run once:
    pinMode(PUMP_PIN,OUTPUT);

    dht.begin();

    // Setup a function to be called every second
timer.setInterval(1000L, sendSensor);
}

void loop()
{
    Blynk.run(); // Initiates Blynk
    timer.run(); // Initiates SimpleTimer
    value=analogRead(mopin);
    Serial.println(value);
    if (value< SOIL_LIMIT)
    {
        digitalWrite(PUMP_PIN, HIGH);
    }
    else
    {
        digitalWrite(PUMP_PIN, LOW);
    }
}
```