***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);  
  }  
    
}