#include <ESP8266WiFi.h> // ESP8266WiFi.h library

const char\* ssid     = "Model Finishing School";// replace subscribe with your WiFi SSID(Name)

const char\* password = "mfs2988009";//replace with Your Wifi Password name

const char\* host = "[api.thingspeak.com](http://api.thingspeak.com/)";

const char\* writeAPIKey = "EU8VY93JRWQMP1PF"; //copy yout ThingSpeak channel API Key.

char auth[] = "OoN-g4Mk6lEDkFEp\_ZAGbVjkoGO-UF4K";

 #include <BlynkSimpleEsp8266.h>

BlynkTimer timer;

void setup() {

 Serial.println("Connecting to ");

       Serial.println(ssid);

//  Connect to WiFi network

  WiFi.begin(ssid, password);

while (WiFi.status() != WL\_CONNECTED) {

delay(500);

    Serial.print(".");

  }

   Serial.println("");

   Serial.println("WiFi connected");

  Blynk.begin(auth, ssid, password);

  pinMode(D0,INPUT);//FAULT

  pinMode(D1,INPUT);//DAY NIGHT

  pinMode(D2,INPUT);//PIR

    pinMode(D7,OUTPUT);//R1

      pinMode(D6,OUTPUT);//R2

// Initialize sensor

 Serial.begin(115200);

}

void loop() {

  Blynk.run();

int fault=digitalRead(D0);

int daynight=digitalRead(D1);

int pir=digitalRead(D2);

 int current=analogRead(A0);

 Serial.println(fault);

  Serial.println(daynight);

   Serial.println(pir);

    Serial.println(current);

if(daynight == 0&&pir==0)

{

   digitalWrite(D6,LOW);

    digitalWrite(D7,HIGH);

    Serial.println(" HUMAN BRIGHT");

}

if(daynight == 0&&pir==1)

{

  digitalWrite(D6,HIGH);

    digitalWrite(D7,LOW);

     Serial.println("NO HUMAN DIM");

}

if(daynight == 0&&fault==0)

{

 Serial.println("ALERT:Street Light Fault:Post no-0990 poojappura ");

   Blynk.email("[iamsreena@gmail.com](mailto:iamsreena@gmail.com)", "Alert", "Street Light Fault:Post no-0990 poojappura");

 Blynk.notify("ALERT:Street Light Fault:Post no-0990 poojappura");

  }

  WiFiClient client;

const int httpPort = 80;

if (!client.connect(host, httpPort)) {

return;

  }

  String url = "/update?key=";

  url+=writeAPIKey;

  url+="&field1=";

  url+=String(pir);

  url+="&field2=";

  url+=String(fault);

    url+="&field3=";

  url+=String(current);

  url+="\r\n";

// Request to the server

  client.print(String("GET ") + url + " HTTP/1.1\r\n" +

"Host: " + host + "\r\n" +

"Connection: close\r\n\r\n");

  Serial.println("Send to ThingSpeak.\n");

client.stop();

  Serial.println("Wait for 15 sec to update next datapack in thingSpeak");

delay(1000);

}