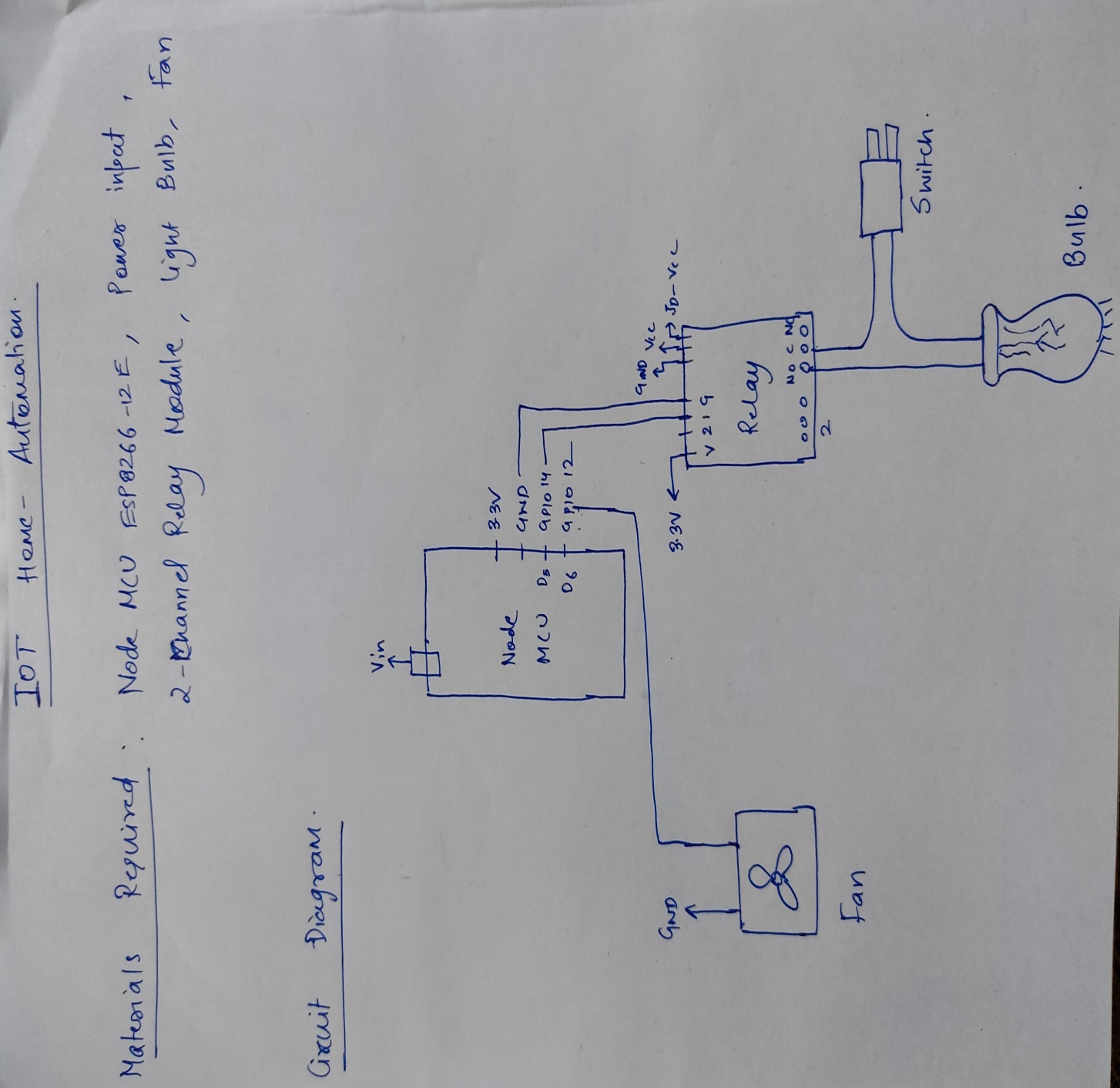
**IOT Home Automation Using NodeMcu and ThingSpeak**

**Name : Aviral Batra**

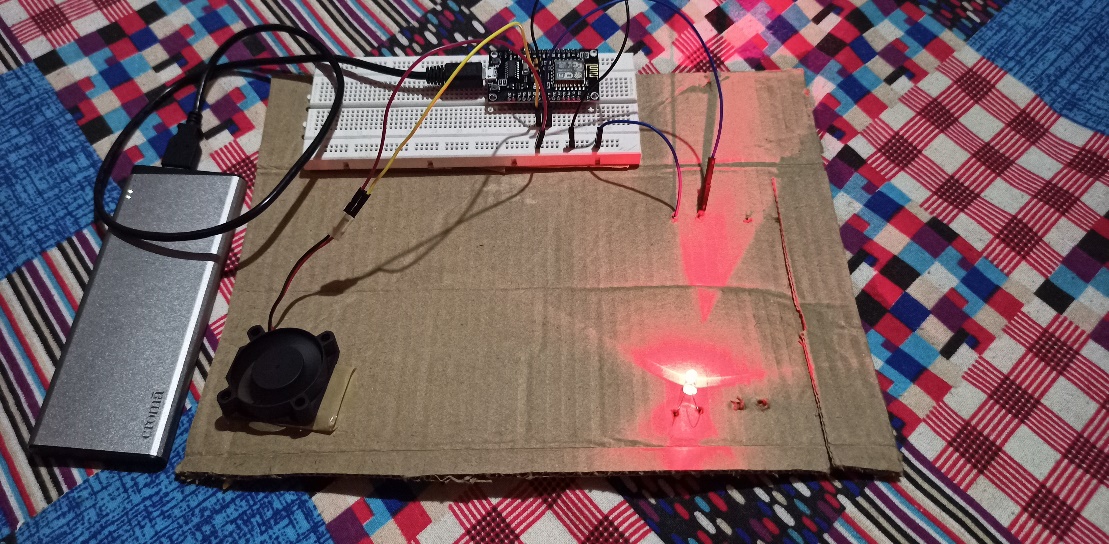
**IOT/ROB-MAJOR-JUNE**

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**Code**

|  |
| --- |
| #include <ESP8266WiFi.h>  #include <ThingSpeak.h>  String ssid = "A-14";  String password = "aviral18";  String server = "api.thingspeak.com";  **unsigned** **long** channelID = **1117707**;  **char**\* readAPIKey = "ZY1HSMTEDR32J820";  **unsigned** **int** dataFieldOne = **1**;  **unsigned** **int** dataFieldTwo = **2**;  **int** Light = **14**;  **int** Fan = **12**;  **int** val1;  **int** val2;  WiFiClient client;  **void** **setup**() {  // put your setup code here, to run once:    Serial.begin(**115200**);  Serial.println("Start");  connectWiFi();  pinMode(Light,OUTPUT);  pinMode(Fan,OUTPUT);  }  **void** **loop**() {  // put your main code here, to run repeatedly:  delay(**2000**);  Serial.println("Waiting...");  val1= readTSData( channelID, dataFieldOne);  val2= readTSData( channelID, dataFieldTwo);  **if**(val1 == **2** && val2 == **2**){  digitalWrite(Light,HIGH);  digitalWrite(Fan,HIGH);  }  **else** **if**( val1 == **1** && val2 == **1**){  digitalWrite(Light,LOW);  digitalWrite(Fan,LOW);  }  **else** **if**( val1 == **1** && val2 == **2**){  digitalWrite(Light,LOW);  digitalWrite(Fan,HIGH);  }  **else** **if**( val1 == **2** && val2 == **1**){  digitalWrite(Light,HIGH);  digitalWrite(Fan,LOW);  }  delay(**1000**);  }  **int** **readTSData**( **long** TSChannel, **unsigned** **int** TSField ) {  **int** data = ThingSpeak.readIntField( TSChannel, TSField, readAPIKey );  Serial.println( " Data read from ThingSpeak: " + TSField + String( data, **9** ) );  **return** data;  }  **int** **connectWiFi**() {  WiFi.begin( ssid, password );  **while** (WiFi.status() != WL\_CONNECTED) {  delay(**500**);  Serial.print(".");  }  Serial.println( "Connected" );  ThingSpeak.begin( client );  } |

**Model**

**Note : My Relay was Faulty and not working so I have to deal without it . So instead with Light Bulb I made Model with Led**

**Video Attached with Mail**