Project Name: LED Light Blinking

Equipments:

NodeMcu v3 modular & LED

[NodeMcu - Pin > D1 - input]

Step-1: Set the board manager in Arduino IDE.

File>Prfeference> additional board managaer url ("http://arduino.esp8266.com/stable/package\_esp8266com\_index.json").

Step-2: Intaall the esp8266 board manager in Arduino IDE.

Tools> Board> Board manager

Step-3: Select the board Manager esp8266

Step-4: Select the Port

[if not working then intall NodeMcu v3 CH340 driver.]

Step-5: Upload the Code in NodeMcu

Project Name: Soil Sensor Detector using Database

Equipments:

NodeMcu v3 modular & Soil Sensor

[NodeMcu - Pin > A0 - input]

[Soil Sensor – Pin > vcc,gnd,A0]

Step-1: Firebase Database Setting from Firebase Console

"https://console.firebase.google.com/"

From Build> Realtime Database > Start in locked mode > Create Database

Step-2: Install "esp8266Firbase" library in Arduino IDE.

Sketch>Include Library>

Step-3: Install libraries

> Firebase\_ESP8266\_Client

> firebase-arduino-master

Step-3: Select the board Manager esp8266

Step-4: Select the Port

[if not working then intall NodeMcu v3 CH340 driver.]

Step-5: Code Parameter Setup

[

FIREBASE\_HOST= // Firbase database link

WIFI\_SSID = // wifi name

WIFI\_PASSWORD= // wifi pass

FIREBASE\_Authorization\_key= // Firebase > project settings> service accounts > databse secrets [key]

]

Step-6: Upload the Code in NodeMcu