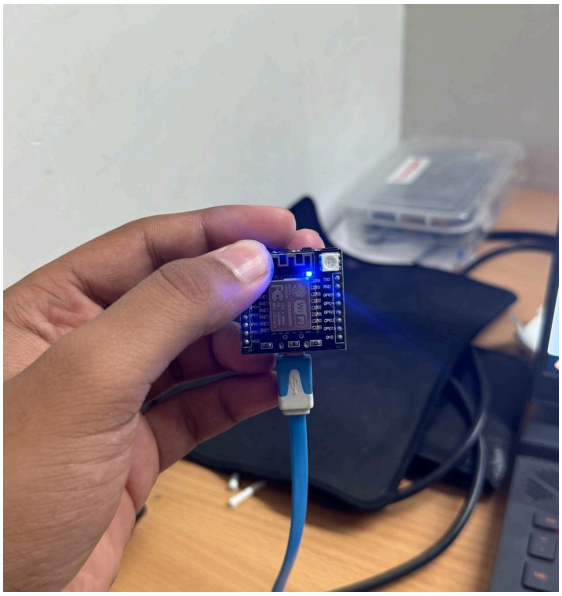
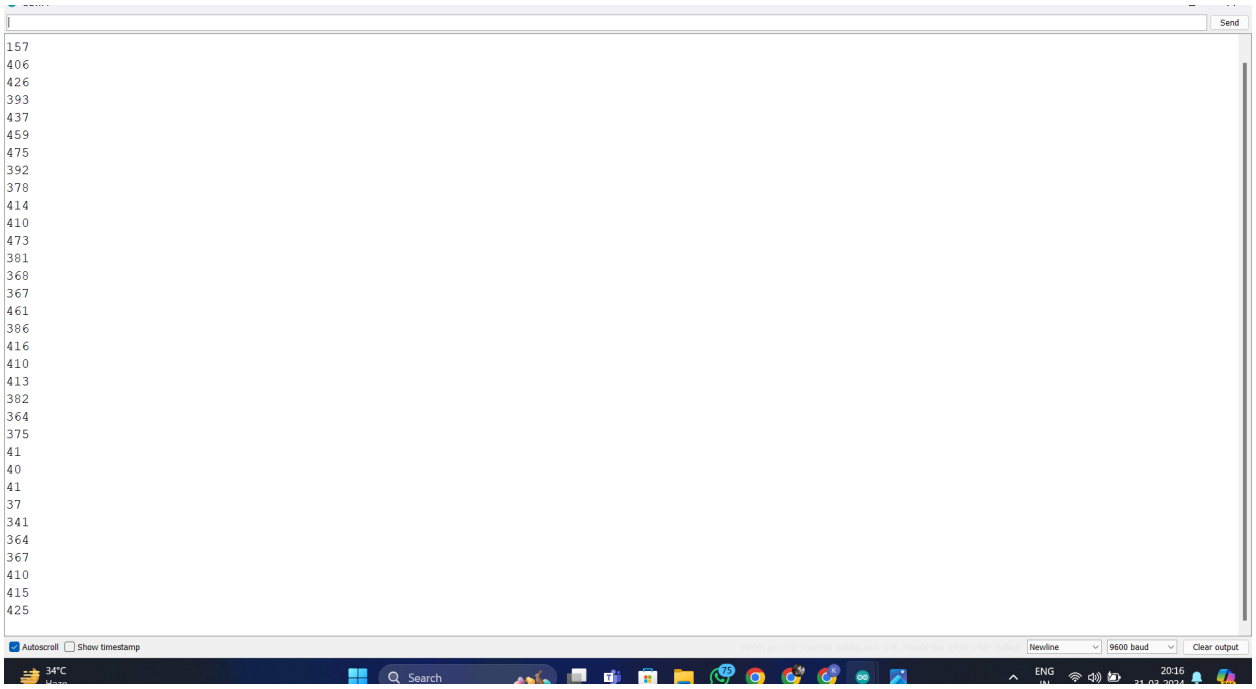
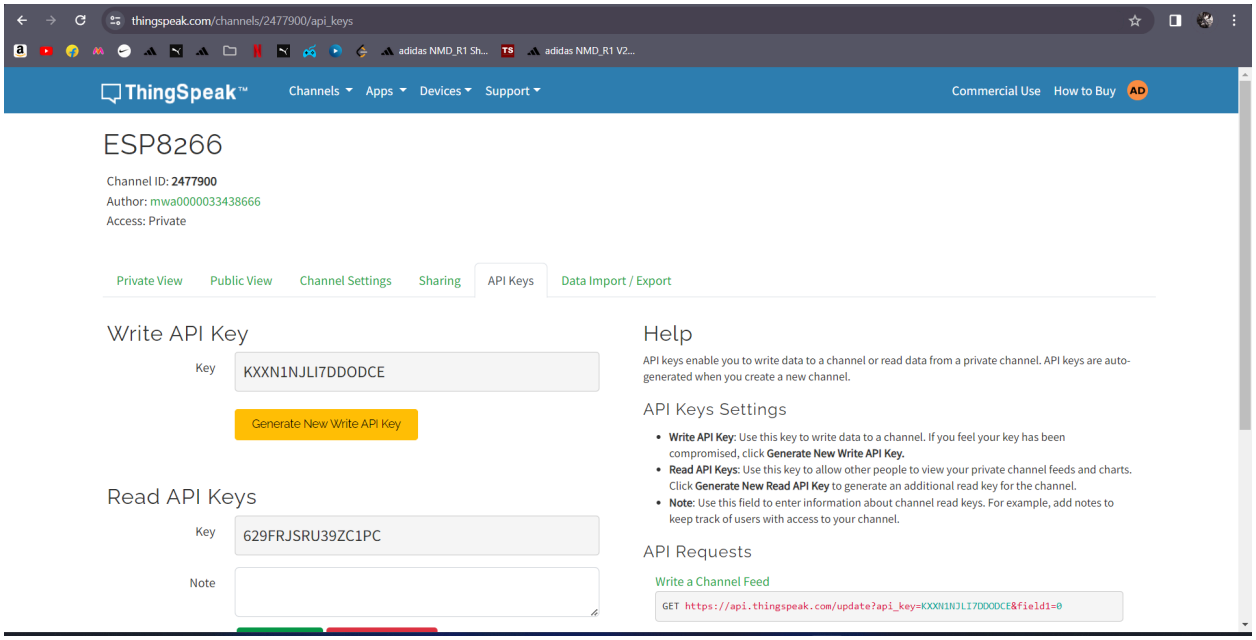
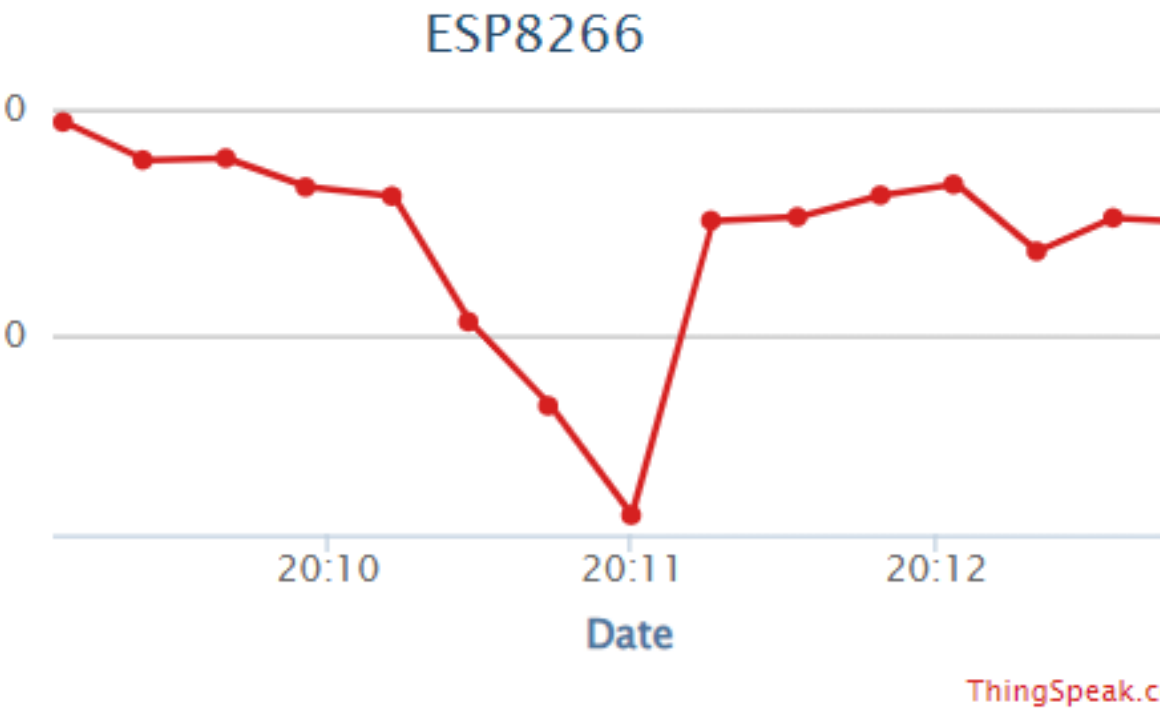
```
/*
Experiment No. :    15
Statement      :    To send data from ESP8266 Witty Cloud Development Board on ThingSpeak cloud.
Date of Exp.   :    xx/xx/xxxx
Author         :    Ayush Deo (A-26)
*/

#include <ESP8266WiFi.h>
#include <ThingSpeak.h>

#define led 2
#define red 15
#define green 12
#define blue 13
#define ldr A0
WiFiClient client;
long myChannelNumber=2477900;
const char myWriteAPIKey[]="KXXN1NJLI7DDODCE";
void setup(){
  pinMode(led,OUTPUT);
  pinMode(red,OUTPUT);
  pinMode(green,OUTPUT);
```

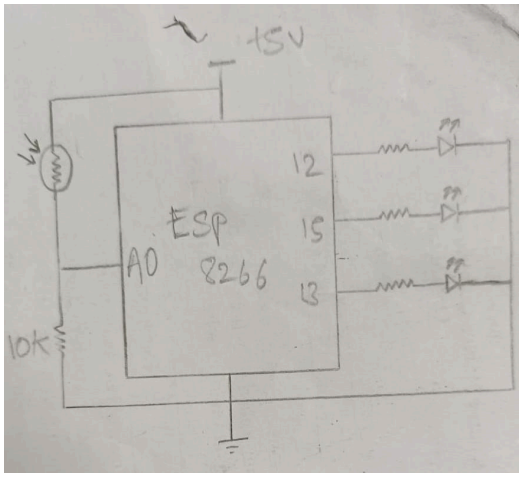
```
  pinMode(blue,OUTPUT);
  Serial.begin(9600);
  WiFi.begin("Jain","jainansh1");
  while(WiFi.status() !=WL_CONNECTED){
    Serial.print('.');
    delay(200);
  }
  Serial.println();
  Serial.println("Witty board connected!");
  Serial.println(WiFi.localIP());
  ThingSpeak.begin(client);
                                                                    }
void loop(){
  int value = analogRead(ldr);
  Serial.println(value);
  ThingSpeak.writeField(myChannelNumber,1,value,myWriteAPIKey);
  delay(2000);
}
```




Send
157
406
426
393
437
459
475
392
378
414
410
473
381
368
367
461
386
416
410
413
382
364
375
41
40
41
37
341
364
367
410
415
425
Autoscroll
Show timestamp
Newline
9600 baud
Clear output
34°C
Search
ENG
20:16


thingspeak.com/channels/2477900/api_keys
ThingSpeak™
Channels
Apps
Devices
Support
Commercial Use
How to Buy
ESP8266
Channel ID: 2477900
Author: mwa0000033438666
Access: Private
Private View
Public View
Channel Settings
Sharing
API Keys
Data Import / Export
Write API Key
Key
KXXN1NJLI7DDODCE
Generate New Write API Key
Read API Keys
Key
629FRJSRU39ZC1PC
Note
Help
API keys enable you to write data to a channel or read data from a private channel. API keys are auto-generated when you create a new channel.
API Keys Settings
Write API Key: Use this key to write data to a channel. If you feel your key has been compromised, click Generate New Write API Key.
Read API Keys: Use this key to allow other people to view your private channel feeds and charts. Click Generate New Read API Key to generate an additional read key for the channel.
Note: Use this field to enter information about channel read keys. For example, add notes to keep track of users with access to your channel.
API Requests
Write a Channel Feed
GET https://api.thingspeak.com/update?api_key=KXXN1NJLI7DDODCE&field1=0


ESP8266
0
0
20:10
20:11
20:12
Date
ThingSpeak.c


+5V
12
15
13
ESP
8266
A0
10K