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

//-----WiFi Details-----//
char ssid[] = "SSID"; //SSID Here
char pass[] = "PASSWORD"; //Password here

//-----Channel Details-----//
unsigned long Channel_ID = 123456; //Your Channel ID
const char * myWriteAPIKey = "ABC123CDE456"; //API Key
const int Field_Number_1 = 1;
const int Field_Number_2 = 2;
const int Field_Number_3 = 3;
const int Field_Number_4 = 4;
const int Field_Number_5 = 5;

String value = "";
int value_1 = 0, value_2 = 0, value_3 = 0, value_4 = 0, value_5 = 0;

WiFiClient client;

void setup()
{
    Serial.begin(115200);
    WiFi.mode(WIFI_STA);
    ThingSpeak.begin(client);
    internet();
}

void loop()
{
    internet();
    if (Serial.available() > 0)
    {
        delay(100);
        while (Serial.available() > 0)
        {
            value = Serial.readString();
            if (value[0] == '*')
            {
                if (value[14] == '#')
                {
                    value_1 = ((value[1] - 0x30) * 10 + (value[2] - 0x30));
                    value_2 = ((value[3] - 0x30) * 10 + (value[4] - 0x30));
                    value_3 = ((value[5] - 0x30) * 10000 + (value[6] - 0x30) * 1000 +
                                (value[7] - 0x30) * 100 + (value[8] - 0x30) * 10 + (value[9] -
                                value_4 = ((value[10] - 0x30) * 10 + (value[11] - 0x30));
                                value_5 = ((value[12] - 0x30) * 10 + (value[13] - 0x30));
                }
            }
        }
    }
    upload();
}

```

```
void internet()
{
    if (WiFi.status() != WL_CONNECTED)
    {
        while (WiFi.status() != WL_CONNECTED)
        {
            WiFi.begin(ssid, pass);
            delay(5000);
        }
    }
}

void upload()
{
    ThingSpeak.writeField(Channel_ID, Field_Number_1, value_1, myWriteAPIKey);
    delay(15000);
    ThingSpeak.writeField(Channel_ID, Field_Number_2, value_2, myWriteAPIKey);
    delay(15000);
    ThingSpeak.writeField(Channel_ID, Field_Number_3, value_3, myWriteAPIKey);
    delay(15000);
    ThingSpeak.writeField(Channel_ID, Field_Number_4, value_4, myWriteAPIKey);
    delay(15000);
    ThingSpeak.writeField(Channel_ID, Field_Number_5, value_5, myWriteAPIKey);
    delay(15000);
    value = "";
}
```