```
#include <ThingSpeak.h>
#include <ESP8266WiFi.h>
char ssid[] = "Tonopah";
char pass[] = "**********";
unsigned long Channel_ID =2070153;
const char * myWriteAPIKey = "**********";
String parking_spots = "";
int write_E2 = 0;
int write_A7 = 0;
int write_F9 = 0;
WiFiClient  client;

void setup()
{
  Serial.begin(115200);
  WiFi.mode(WIFI_STA);
  ThingSpeak.begin(client);
  internet();
  Serial.println();
  Serial.print("Connecting to ");
  Serial.println(ssid);
}

void internet()
{
  if (WiFi.status() != WL_CONNECTED)
  {
    while (WiFi.status() != WL_CONNECTED)
    {
      WiFi.begin(ssid, pass);
      delay(5000);
    }
  Serial.println("");
  Serial.println("WiFi connected");
  Serial.println("IP address: ");
  Serial.println(WiFi.localIP());
  }
}

void loop()
{
  internet();
  if (Serial.available() > 0)
  {
    while (Serial.available() > 0)
    {
      parking_spots = Serial.readString();
      if (parking_spots[0] == '/')
      {
        if (parking_spots[4] == '/')
        {
          write_E2 = parking_spots[1] - 0x30;
          write_A7 = parking_spots[2] - 0x30;
          write_F9 = parking_spots[3] - 0x30;
        }
```

```
    }
   }
  }
  ThingSpeak_send();
}

void ThingSpeak_send()
{
  ThingSpeak.setField(1, write_E2);
  ThingSpeak.setField(2, write_A7);
  ThingSpeak.setField(3, write_F9);
  ThingSpeak.writeFields(Channel_ID, myWriteAPIKey);
  parking_spots = "";
}
```