



Programa principal (thingspeak-twitter.py):

```
import urllib.request
import threading
import tweepy
import autenticacao as aut
import random

auth = tweepy.OAuthHandler(aut.API_key, aut.API_key_secret)
auth.set_access_token(aut.access_token, aut.access_token_secret)
api = tweepy.API(auth)

def idSensor():
    ids = [0, 1, 2, 3]
    id_monitorado = random.choice(ids)
    return id_monitorado

def thingspeak_post():
    threading.Timer(10, thingspeak_post).start()
    id_sensor = idSensor()
    if id_sensor == 0:
        print('Valor do field: ', id_sensor)
    else:
        tweet_string = 'Alarme da região {} acionado'.format(id_sensor)
        URL = 'https://api.thingspeak.com/update?api_key='
        KEY = 'QIFF3RFAYVKZXT16'
        HEADER = '&field1={}'.format(id_sensor)
        NEW_URL = URL+KEY+HEADER
        data = urllib.request.urlopen(NEW_URL)
        print(data)
        try:
            print('Valor do field: ', id_sensor)
            api.update_status(tweet_string)
            print('Tweet enviado!')
        except tweepy.TweepError as e:
            print(e.reason)

if __name__ == '__main__':
    thingspeak_post()
```

Autenticação (autenticacao.py):

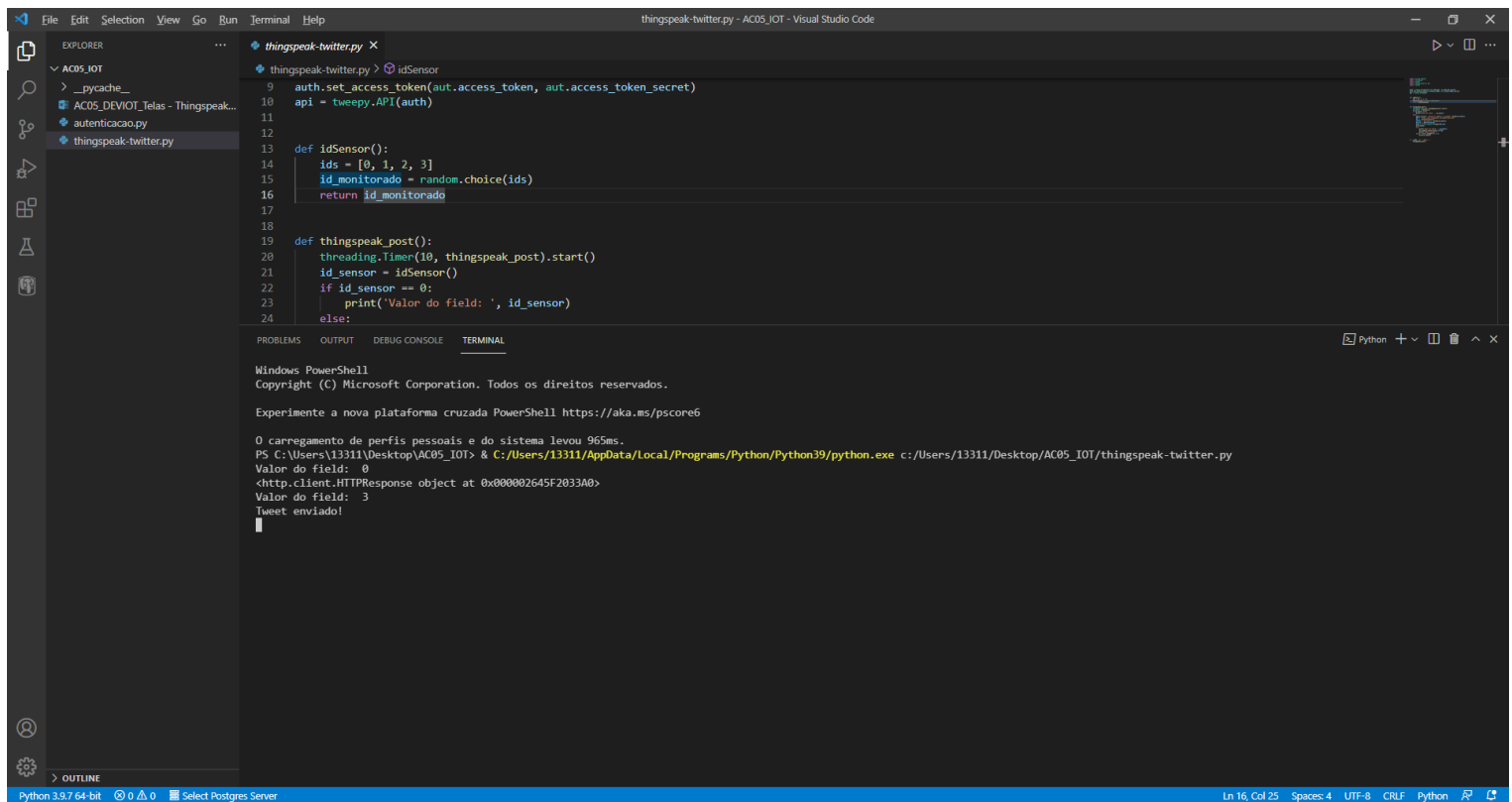
```
# Autenticação Tweepy
# OAuthHandler

API_key = 'eXIjB3Qwbna0efBfGSiDpQEjJ'
API_key_secret = 'xDf1YE2cZ0CeUPIl bNU5t1uoYFSLSqUsA0JuHje1NNTFTCcXt9'

# set_access_token

access_token = '1452777056635400195-DFyc0lZ2vGZVTFiW0iwOMfpUZTnKRu'
access_token_secret = 'KgRHg1pQuwVsKJsk7LnPud79fXS158gRkDQPEcc8juFon'
```

Terminal (telas após execução do programa):



```
File Edit Selection View Go Run Terminal Help
thingspeak-twitter.py - AC05_IOT - Visual Studio Code

EXPLORER
AC05_IOT
  _pycache_
  AC05_DEV_IOT_Telas - Thingspeak...
  autentizacao.py
  thingspeak-twitter.py

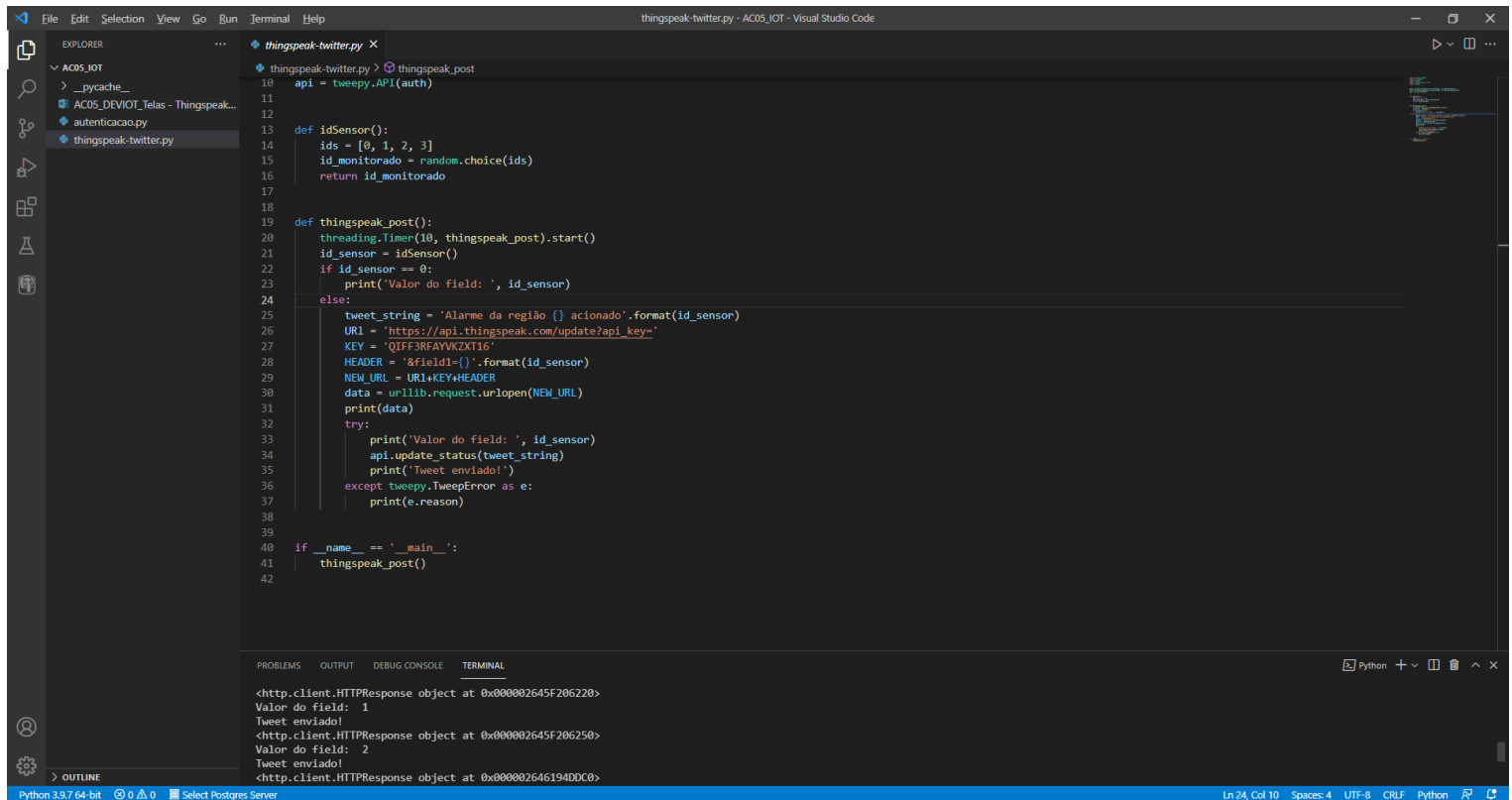
thingspeak-twitter.py
9  auth.set_access_token(auth.access_token, auth.access_token_secret)
10 api = tweepy.API(auth)
11
12
13 def idSensor():
14     ids = [0, 1, 2, 3]
15     id_monitorado = random.choice(ids)
16     return id_monitorado
17
18
19 def thingspeak_post():
20     threading.Timer(10, thingspeak_post).start()
21     id_sensor = idSensor()
22     if id_sensor == 0:
23         print('Valor do field: ', id_sensor)
24     else:

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Python

Windows PowerShell
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Experimente a nova plataforma cruzada PowerShell https://aka.ms/pscore6

O carregamento de perfis pessoais e do sistema levou 965ms.
PS C:\Users\13311\Desktop\AC05_IOT> & C:/Users/13311/AppData/Local/Programs/Python/Python39/python.exe c:/Users/13311/Desktop/AC05_IOT/thingspeak-twitter.py
Valor do field: 0
<http.client.HTTPResponse object at 0x00002645F2033A0>
Valor do field: 3
Tweet enviado!
```



```
File Edit Selection View Go Run Terminal Help
thingspeak-twitter.py - AC05_IOT - Visual Studio Code

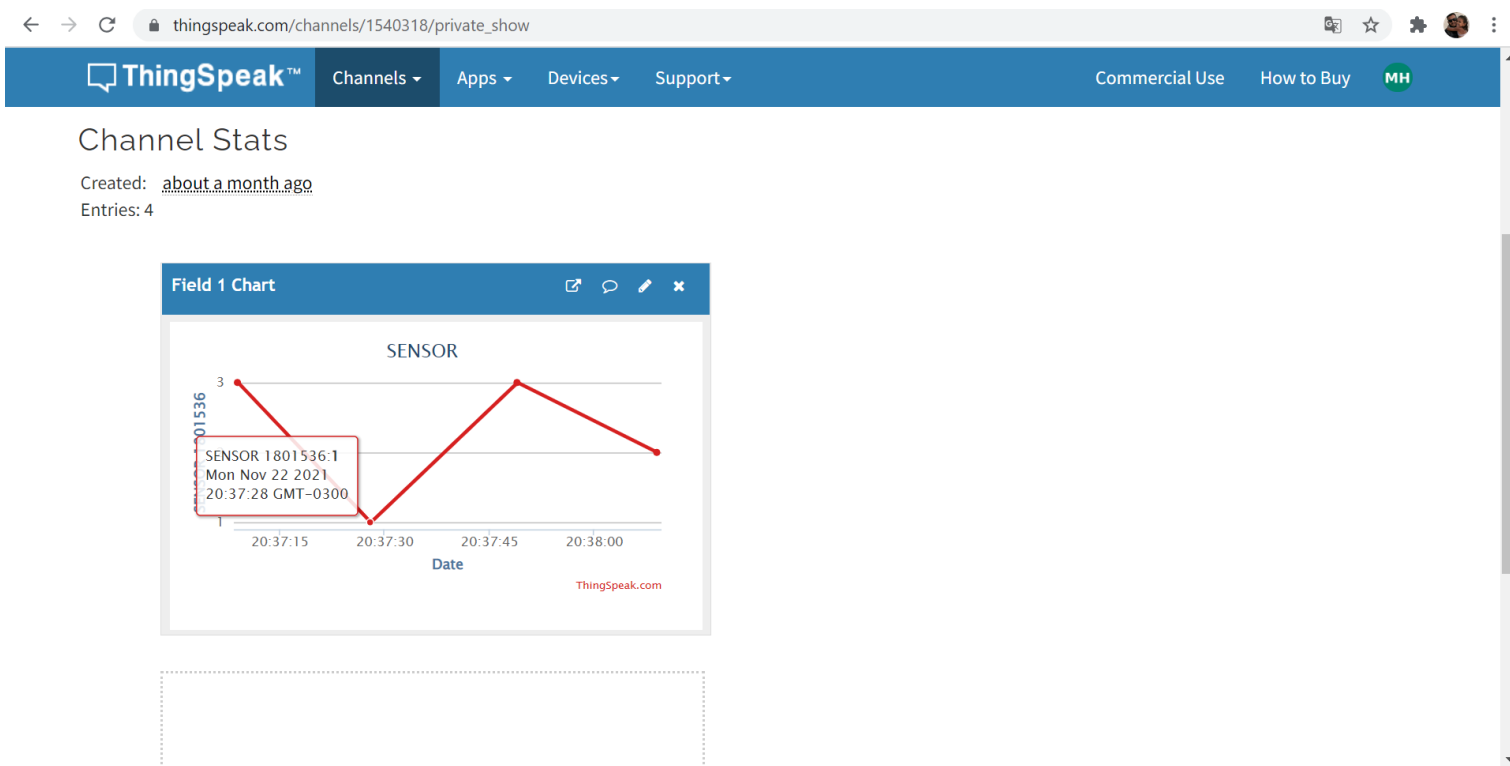
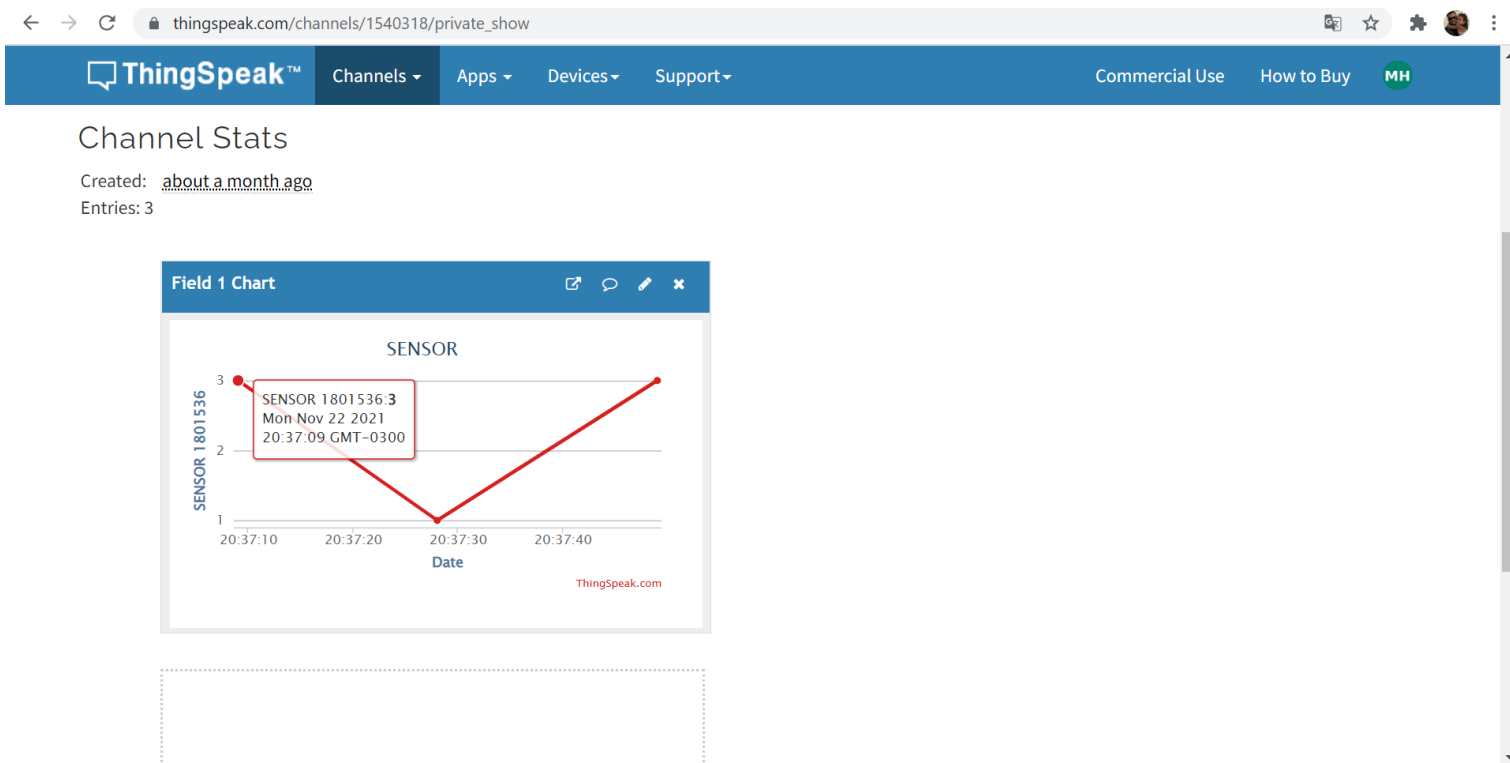
EXPLORER
AC05_IOT
  _pycache_
  AC05_DEV_IOT_Telas - Thingspeak...
  autentizacao.py
  thingspeak-twitter.py

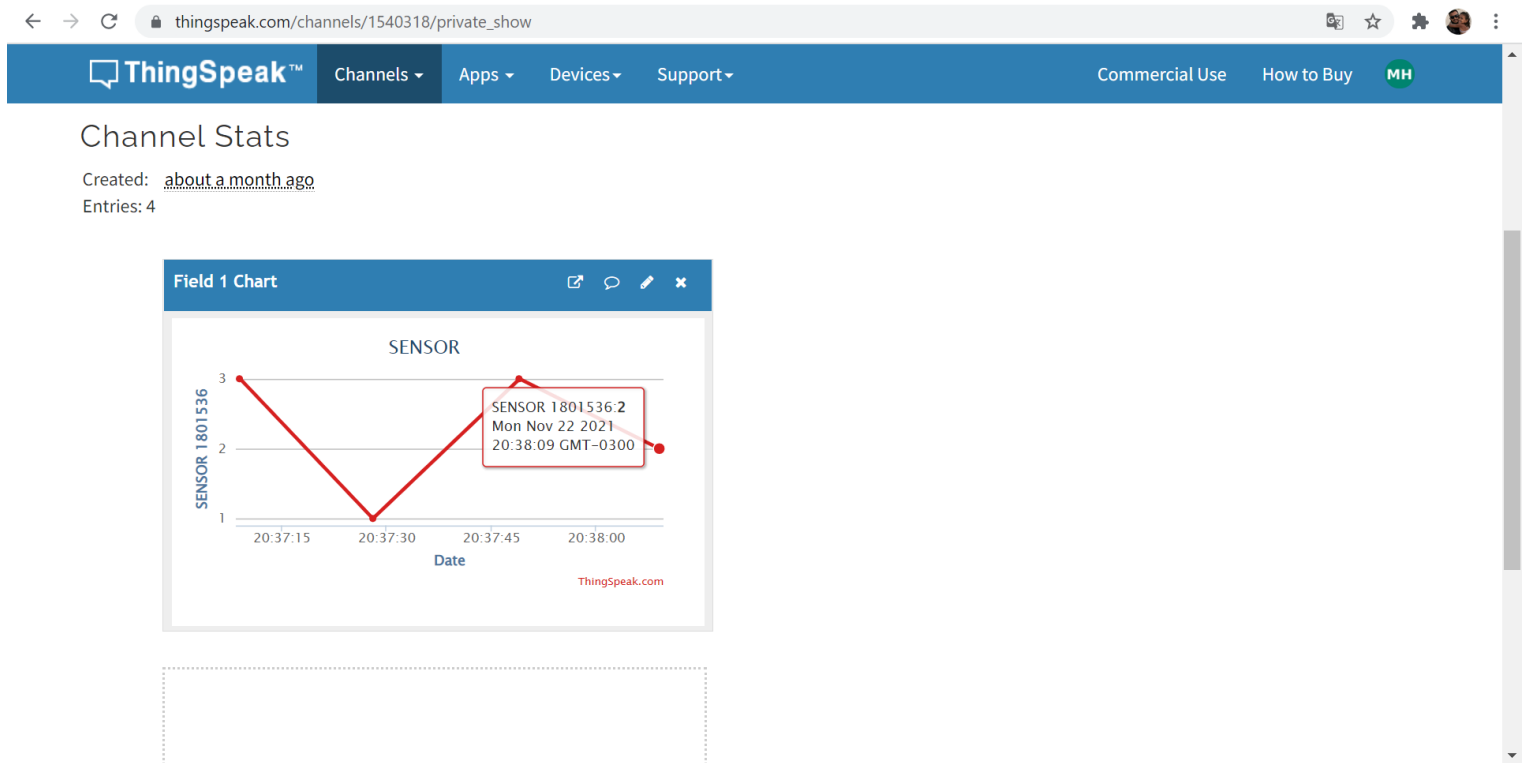
thingspeak-twitter.py
10 api = tweepy.API(auth)
11
12
13 def idSensor():
14     ids = [0, 1, 2, 3]
15     id_monitorado = random.choice(ids)
16     return id_monitorado
17
18
19 def thingspeak_post():
20     threading.Timer(10, thingspeak_post).start()
21     id_sensor = idSensor()
22     if id_sensor == 0:
23         print('Valor do field: ', id_sensor)
24     else:
25         tweet_string = 'Alarme da região {} acionado'.format(id_sensor)
26         URL = 'https://api.thingspeak.com/update?api_key='
27         KEY = 'QIIF3RFAYVKZXT116'
28         HEADER = '8field=1'.format(id_sensor)
29         NEW_URL = URL+KEY+HEADER
30         data = urllib.request.urlopen(NEW_URL)
31         print(data)
32         try:
33             print('Valor do field: ', id_sensor)
34             api.update_status(tweet_string)
35             print('Tweet enviado!')
36         except tweepy.TweepError as e:
37             print(e.reason)
38
39
40 if __name__ == '__main__':
41     thingspeak_post()
42

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Python

<http.client.HTTPResponse object at 0x00002645F206220>
Valor do field: 1
Tweet enviado!
<http.client.HTTPResponse object at 0x00002645F206250>
Valor do field: 2
Tweet enviado!
<http.client.HTTPResponse object at 0x00002646194DDC0>
```

ThingSpeak (pontos criados de acordo com o alarme acionado por região):





Twitter (tela com os tweets enviados):

← → ↻ twitter.com/home?lang=pt

Home

What's happening?

Everyone can reply

20+

Mateus Henrique Alves da Silva @4ltOfctrl · 1m

Alarme da região 2 acionado

Mateus Henrique Alves da Silva @4ltOfctrl · 1m

Alarme da região 1 acionado

Mateus Henrique Alves da Silva @4ltOfctrl · 1m

Alarme da região 3 acionado

Thanks. Twitter will use this to make your timeline better. Undo

This Tweet is not about Science

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