

2FA EN PYTHON

The screenshot shows a Google Colab notebook titled "Untitled5.ipynb". The code cell at the top imports time and pyotp, then generates a TOTP key and prints it. It prompts the user for a 2FA code and verifies it. The output shows the generated key and a successful verification.

```
[17] 1 import time
      2 import pyotp
      3
      4 key="atomosecretkey"
      5 totp= pyotp.TOTP(key)
      6 print(totp.now())
      7 input_code = input("ingrese 2FA codigo: ")
      8 totp.verify(input_code)

112449
ingrese 2FA codigo: 112449
True
```

The screenshot shows a Google Colab notebook titled "Untitled5.ipynb". The code cell generates a HOTP key and prints its first three values. It then enters a loop where it repeatedly prompts the user for a code and verifies it, incrementing a counter each time. The output shows the initial values and two successful verifications.

```
1 counter= 0
2 hotp=pyotp.HOTP(key)
3 print(hotp.at(0))
4 print(hotp.at(1))
5 print(hotp.at(2))
6
7
8 for _ in range(2):
9     print(hotp.verify(input("ingrese el Codigo: "), counter))
10    counter+=1

225728
809524
335688
ingrese el Codigo: 225728
True
ingrese el Codigo: 809524
True
```

Mi unidad - Google Drive Untitled5.ipynb - Colaboratory (25) LinkedIn

https://colab.research.google.com/drive/1evmVXP76GbNRWmpJNW9KSNUXE41y0UsD#scrollTo=fQd9TjvYAT1Z

Untitled5.ipynb

Archivo Editar Ver Insertar Entorno de ejecución Herramientas Ayuda Se guardaron todos los

+ Código + Texto

6 s 1 pip install qrcode

Collecting qrcode
 Downloading qrcode-7.4.2-py3-none-any.whl (46 kB)
 46.2/46.2 kB 1.0 MB/s eta 0:00:00
Requirement already satisfied: typing-extensions in /usr/local/lib/python3.10/dist-packages (from qrcode) (4.7.1)
Collecting pypng (from qrcode)
 Downloading pypng-0.20220715.0-py3-none-any.whl (58 kB)
 58.1/58.1 kB 3.1 MB/s eta 0:00:00
Installing collected packages: pypng, qrcode
Successfully installed pypng-0.20220715.0 qrcode-7.4.2

[12]: 1 import qrcode
2 uri=pyotp.totp.TOTP(key).provisioning_uri(name="marco",issuer_name="Atomo App")
3 print(uri)
4 qrcode.make(uri).save("totp.png")

otpauth://totp/Atomo%20App:marco?secret=atomosecretokey&issuer=Atomo%20App

✓ 15 s se ejecutó 19:00

