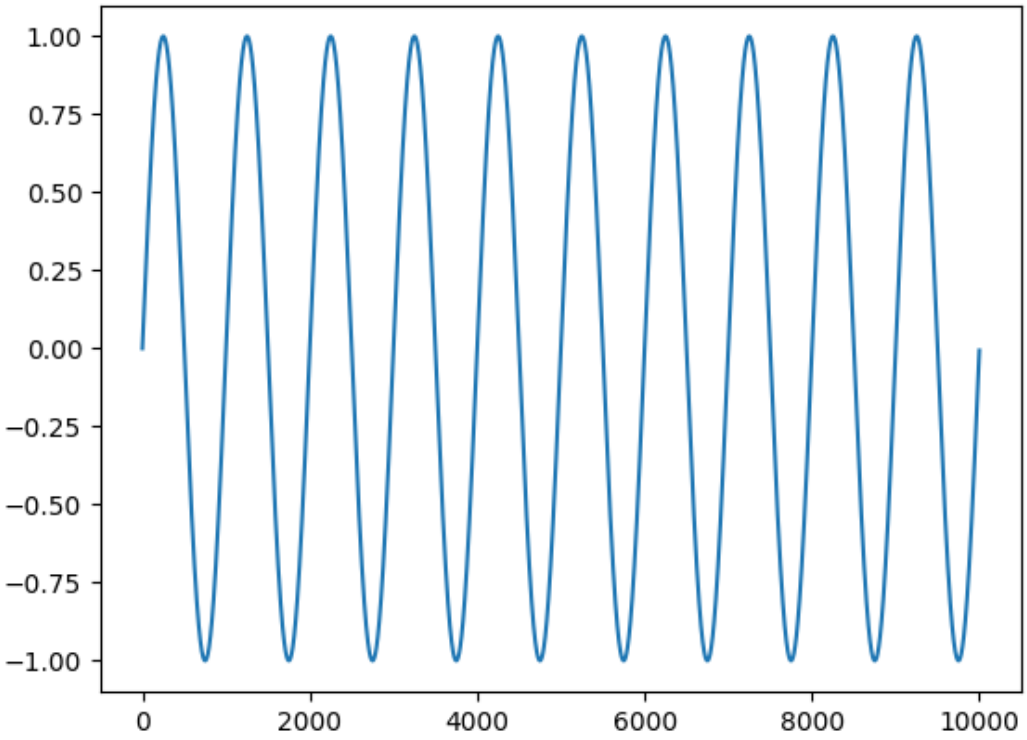
funcGen.py

Código fuente

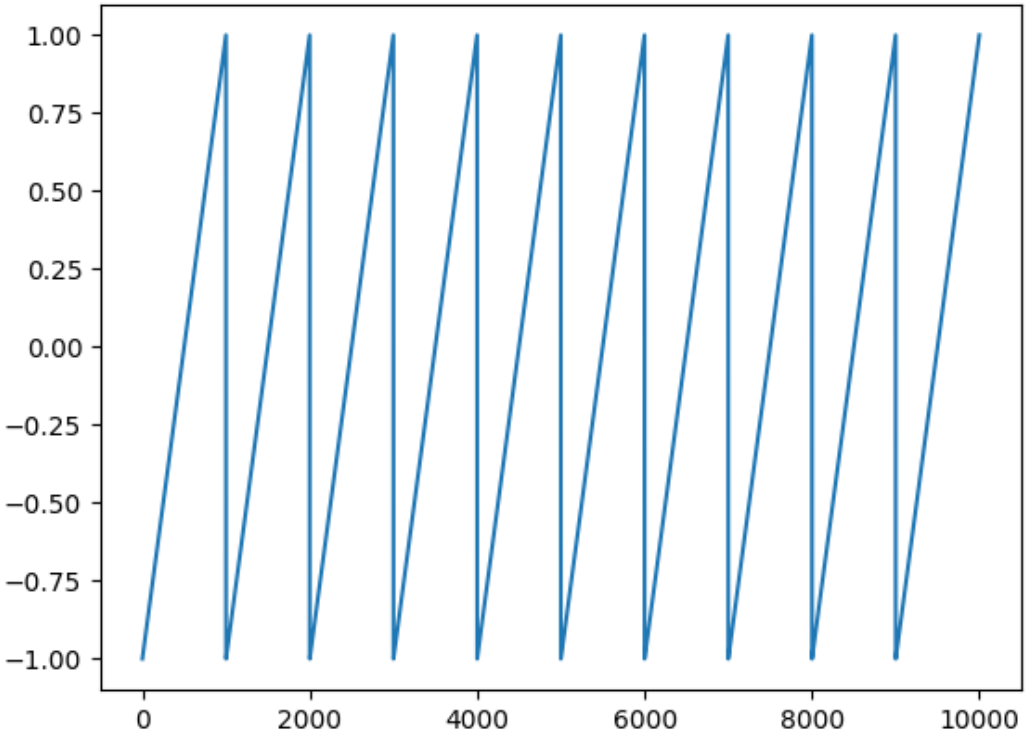
```
import numpy as np
import scipy.signal as sc
import matplotlib.pyplot as plt
from numpy import pi as pi


def sigSin(f,T):
    """ Usage example plt.plot(sigSin(1e3,10));plt.show() """
    x = np.arange(0,T,1/f)
    y = np.sin(2*pi*x)
    return y


def sigTrian(f,T):
    """ Usage example plt.plot(sigTrian(2e3,15));plt.show() """
    x = np.arange(0,T,1/f)
    y = sc.sawtooth(2*pi*x)
    return y


def sigSquare(f,T):
    """ Usage example plt.plot(sigSquare(1e3,20));plt.show() """
    x = np.arange(0,T,1/f)
    y = sc.square(2*pi*x,0.5)
    return y
```

Ejemplos

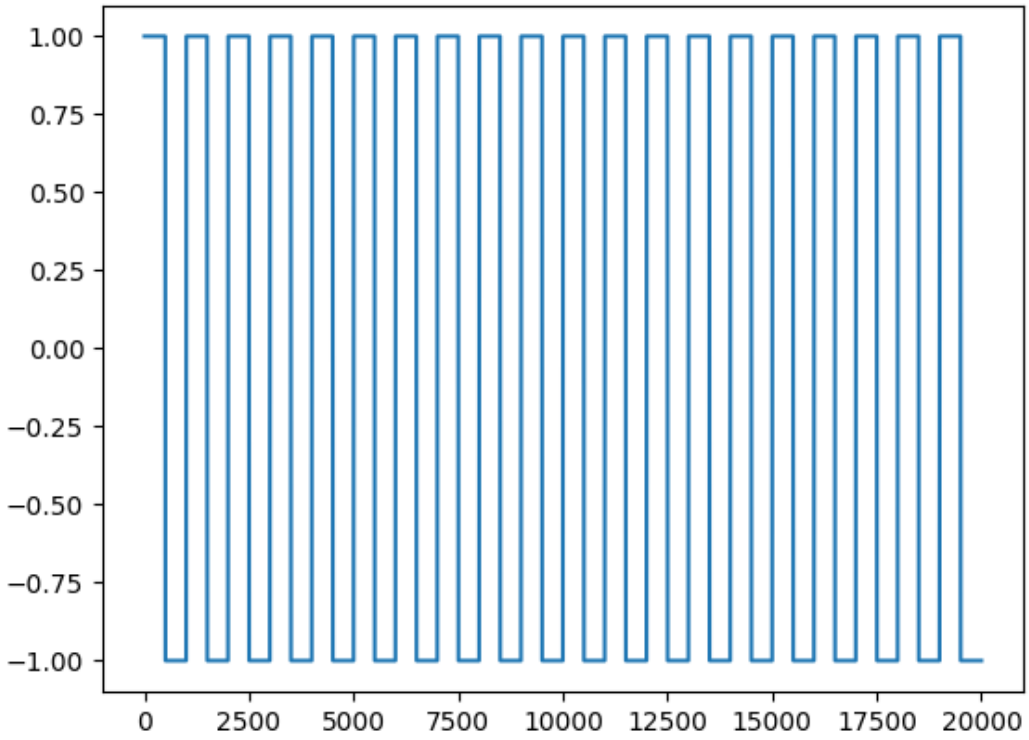
```
plt.plot(sigSin(1e3,10));plt.show()
```




```
plt.plot(sigTrian(1e3,10));plt.show()
```




```
plt.plot(sigSquare(1e3,20));plt.show()
```


1.00
0.75
0.50
0.25
0.00
−0.25
−0.50
−0.75
−1.00
0
2500
5000
7500
10000
12500
15000
17500
20000