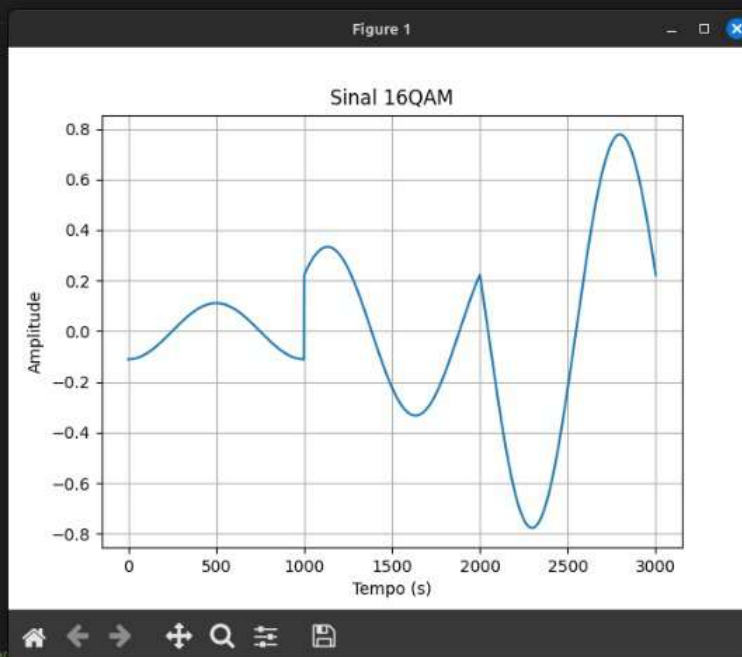


Arquivo Editar Seleção Ver Acessar Executar Terminal Ajuda

Welcome import numpy as np.py x

home > aristeudantas > Área de Trabalho > import numpy as np.py > ...

```
1 import numpy as np # type: ignore
2 import matplotlib.pyplot as plt # type: ignore
3
4 # Parâmetros
5 f = 1 # Frequência da portadora
6 A1 = 1/3 # Amplitude A1
7 A2 = np.sqrt(5)/3 # Amplitude A2
8 t = np.linspace(0, 1, 1000) # Vetor de tempo
9 bits = "0110010011"
10
11 constellation = {
12     "0000": [0, -3*A2/3],
13     "0001": [A1/3, -2*A2/3],
14     "0010": [-A1/3, -2*A2/3],
15     "0011": [-2*A1/3, -A2/3],
16     "0100": [2*A1/3, -A2/3],
17     "0101": [A1/3, 0],
18     "0110": [-A1/3, 0],
19     "0111": [-2*A1/3, A2/3],
20     "1000": [2*A1/3, A2/3],
21     "1001": [A1/3, 2*A2/3],
22     "1010": [-A1/3, 2*A2/3],
23     "1011": [-2*A1/3, 3*A2/3],
24     "1100": [2*A1/3, 3*A2/3],
25     "1101": [A1/3, 2*A2/3],
26     "1110": [-A1/3, 2*A2/3],
27     "1111": [0, 3*A2/3]
28 }
29
30 # Função para gerar o sinal de um símbolo
31 def generate_symbol(bits, constellation, f, t):
32     if len(bits) < 4:
33         bits = bits.ljust(4, '0') # Completa os bits faltantes com zeros
```



PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
File "/home/aristeudantas/Área de Trabalho/import numpy as np.py", line 33, in <module>
s = generate_symbol(symbol bits, constellation, f, t)
File "/home/aristeudantas/Área de Trabalho/import numpy as np.py", line 23, in generate_symbol
I, Q = constellation[bits]
KeyError: '0110'
aristeudantas@aristeudantas-Apire-A514-54:~/Área de Trabalho$ /bin/python3 "/home/aristeudantas/Área de Trabalho/import numpy as np.py"
Traceback (most recent call last):
File "/home/aristeudantas/Área de Trabalho/import numpy as np.py", line 43, in <module>
s = generate_symbol(symbol bits, constellation, f, t)
File "/home/aristeudantas/Área de Trabalho/import numpy as np.py", line 33, in generate_symbol
I, Q = constellation[bits]
KeyError: '11'
aristeudantas@aristeudantas-Apire-A514-54:~/Área de Trabalho$ /bin/python3 "/home/aristeudantas/Área de Trabalho/import numpy as np.py"
```

Ln 5, Col 33 Spaces: 4 UTF-8 LF Python 3.10.12 64-bit Go Live