12/20/22, 2:12 AM plotconfig.py

```
1 ...
 2 authour: Mayur Kamat
 3 affiliation: 201104032, TE-E&TC Engg. Sem V, 2021-22, GEC
 4 last updated: 22/11/2022
 5 ''
 6
7 #importing necessary functions from libraries
8 from numpy import linspace
9 from numpy.fft import fftfreq
10
11
12 #message signal parameteres
13 amp_vm = 20
14 \text{ amp\_vc} = 50
15 fc = 800
16
17 #these are sampling values
18 \text{ fs} = 30 \text{ fc}
19 dt= 1/fs
20 \text{ duration} = 1
21 N = duration * fs
22
23 #generating time axis samples
24 time = linspace(0, duration, N)
25
26 #message and carrier singal variables need to be calculated in the main file
27 \text{ vm} = 0
28 vc = 0
29 vask = 0
30
31 #spectrum variables needs to be calculated in the main file
32 spectrum = 0
33
34 #generating frequency axis samples
35 frequency = fftfreq(len(time), dt)
36 print(len(frequency))
37
38
39
```