

```
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1 from numpy import arange, sin, exp, cos, loadtxt # as ae
2 from matplotlib.pyplot import plot, show, grid, subplot, xlabel, title, figure
3 ## =====
4 ## custom functions
5
6 ## defining my own function y=sce(x) that
7 ## calculate y=sin(cos(exp(x)))
8 ## and plots it at once
9 def sce(x):
10     y=sin(cos(exp(x)))
11     figure()
12     plot(x,y)
13     show()
14     return(y)
15 ## =====
16
17 ##k=range(0,10) # list of integers
18 ##
19 ##
20 ### plot function y=sin(3*t+1) for t=0:60
21 ##t=arange(0,60,0.1) # array of floats
22 ##
23 ##### Alt+3 (Alt+#), Alt+4
24 #####print(t)
25 ##### check the array dimension
26 #####print(t.shape)
27 ##
28 ##### 2 functions in one figure and in one axes
29 ##y=sin(3*t+1)
30 ##figure()
31 ##plot(t,y)
32 #####show()
33 ##z=exp(sin(t))
34 ##plot(t,z)
35 ##xlabel('time [sec]'),grid()
36 #####show()
37 ##
38 ##### 2 functions in one figure and in separate axes (subplot)
39 ##figure()
40 ##subplot(211), plot(t,y),grid(),xlabel('time [sec]')
41 ##subplot(212)
42 ##plot(y,z)
43 ##xlabel('y'),grid()
44
45 ## ---- my own function sce(x) as defined above
46 ##fn=arange(-10,10,.1)
47 ##bz=sce(fn)
48
49 ## for loop
50 for i in range(0,5):
51     print([' i = ' + str(i) + ' and some text again'])
52 print('finished')
53
54 ### loading data from text files
55 ##
56 ##loadtxt('file.txt',delimiter='\t')
```