



EXPLORER

## OPEN EDITORS

percipio25\_running\_module\_sc...

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percipio25\_running\_module\_script\_namespaces.py x

```
1 # percipio25_running_module_script_namespaces.py
2 # Percipio video: Modules and Functions; Running a Module as a Script
3 # This video explains Python main namespaces, this "if __name__ == '__main__':" line of code, & running a
  module using the 'if name equals main' construct
4 nl = '\n'
5 #
6 import random # imports random module
7 sayings = ('Hello', 'Hi', 'Hey', 'Aloha') # sets a variable to a tuple of strings (tuple = immutable =
  unchanging)
8
9 def greet(): # function which returns randomly a choice from the sayings-variable tuple
10     return random.choice(sayings) #
11
12 def test_greet(): # function returning a for loop printing greet-function-tuple 8 times with end line
  printed
13     print('test_greet function run:')
14     for loop in range(8): #
15         print(greet(), end=' ') #
16     print('\ngreetings test completed') #
17
18
19 if __name__ == '__main__': # checks 'main name space', or if program has been run directly, which returns
  True & prints line.
20     print(greet(), '-> so "main name space" is True') #
21     # '__name__' equals namespace
22     # 'dir()' typed within python shell shows the names within the main namespace
23     # more about Python Namespaces
24     # https://bytebaker.com/2008/07/30/python-namespaces/
25     # https://stackoverflow.com/questions/3913217/what-are-python-namespaces-all-about
26
```