percipio25_running_module_script_namespaces.py ✕

```python
 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
```