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exer05_functions_key.py
import types
import unittest
class TestFunctions(unittest.TestCase):
    def test_functions(sel f):
        A basic introduction to functions
        # Define a function called ``add_2`` that returns 2 more than
        # what is passed into it. Normally function are global to a
        # module, but they can also be defined in the scope of another
                     You can either put it below, or outside of the
        # function.
        # TestFunctions class.
        def add_2(num):
            return num +2
        sel f. assert_(i si nstance(add_2, types. Functi onType))
        sel f. assertEqual s(add_2(4), 6)
        # Write a function ``add_3`` that has the following docstring:
        # "Adds 3 to the input"
        def add_3(num):
              'Adds`3 to the input"
             return num + 3
        self.assertEquals(add_3.__doc__, 'Adds 3 to the input')
# Default Parameters.
# Write a function ``mul_n`` that takes one or two parameters (the second
parameter named ``x``).
# If it has 2 parameters it multiplies them. If it takes one
# caremeter it multiplies it by 5
        # parameter, it multiplies it by 5
        def mul_n(num, x=5):
            return num*x
        sel f. assertEqual s(mul_n(5, 1), 5)
        sel f. assertEqual s(mul_n(5), 25)
        sel f. assertEqual s(mul_n. func_defaul ts, (5,))
if __name__ == '__main__':
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