ARIE CIMIAFRNACA
124019225
OPS445NCC.03898.2244

OK
admin@fedora:~/ops445/lab3$ pwd
/home/admin/ops445/lab3
admin@fedora:~/ops445/lab3$ python3 CheckLab3.py -v -f lab3a.py
test_0 (__main__.lab3a.test_0)
[Lab 3] - [Investigation 1] - [Part 4] - Functions - Test for file creation: ./lab3a.py ... ok
test_1 (__main__.lab3a.test_1)
[Lab 3] - [Investigation 1] - [Part 4] - Functions - Test for errors running: ./lab3a.py ... ok
test_2 (__main__.lab3a.test_2)
[Lab 3] - [Investigation 1] - [Part 4] - Functions - Test for correct shebang line: ./lab3a.py ... ok
test_4_function_return_text_value (__main__.lab3a.test_4_function_return_text_value)
[Lab 3] - [Investigation 1] - [Part 4] - Functions - function print_out_text() has correct output ... ok
test_5_function_return_number_value (__main__.lab3a.test_5_function_return_number_value)
[Lab 3] - [Investigation 1] - [Part 4] - Functions - function print_out_text() has correct output ... ok

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Ran 5 tests in 0.016s

OK
admin@fedora:~/ops445/lab3$

```
admin@fedora:~/ops445/lab3$ pwd
/home/admin/ops445/lab3
admin@fedora:~/ops445/lab3$ python3 CheckLab3.py -v -f lab3b.py
test_0 (__main__.lab3b.test_0)
[Lab 3] - [Investigation 2] - [Part 1] - Functions - Test for file creation: ./lab3b.py ... ok
test_1 (__main__.lab3b.test_1)
[Lab 3] - [Investigation 2] - [Part 1] - Functions - Test for errors running: ./lab3b.py ... ok
test_2 (__main__.lab3b.test_2)
[Lab 3] - [Investigation 2] - [Part 1] - Functions - Test for correct shebang line: ./lab3b.py ... ok
test_4_function_sum (__main__.lab3b.test_4_function_sum)
[Lab 3] - [Investigation 2] - [Part 1] - functions & arguments - function sum_numbers() fails without 2 arguments ... ok
test_5_function_subtract (__main__.lab3b.test_5_function_subtract)
[Lab 3] - [Investigation 2] - [Part 1] - functions & arguments - function subtract_numbers() fails without 2 arguments ... ok
test_6_function_multiply (__main__.lab3b.test_6_function_multiply)
[Lab 3] - [Investigation 2] - [Part 1] - functions & arguments - function multiply_numbers() fails without 2 arguments ... ok
test_7_function_sum_output (__main__.lab3b.test_7_function_sum_output)
[Lab 3] - [Investigation 2] - [Part 1] - functions & arguments - function add_numbers() adds correctly ... ok
test_8_function_subtract_output (__main__.lab3b.test_8_function_subtract_output)
[Lab 3] - [Investigation 2] - [Part 1] - functions & arguments - function subtract_numbers() subtracts correctly ... ok
test_9_function_multiply_output (__main__.lab3b.test_9_function_multiply_output)
[Lab 3] - [Investigation 2] - [Part 1] - functions & arguments - function multiply_numbers() multiplies correctly ... ok


----------------------------------------------------------------------
Ran 9 tests in 0.016s


OK
admin@fedora:~/ops445/lab3$
```

```
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  124019225
  OPS445NCC.03898.2244
```

```
admin@fedora:~/ops445/lab3$ pwd
/home/admin/ops445/lab3
admin@fedora:~/ops445/lab3$ ls CheckLab3.py || wget 'https://github.com/senecaops445/lab3-template/blob/main/CheckLab3.py?raw=true' -O CheckLab3.py
python3 ./CheckLab3.py -f -v lab3c.py
CheckLab3.py
test_0 (__main__.lab3c.test_0)
[Lab 3] - [Investigation 2] - [Part 1] - Functions - Test for file creation: ./lab3c.py ... ok
test_1 (__main__.lab3c.test_1)
[Lab 3] - [Investigation 2] - [Part 1] - Functions - Test for errors running: ./lab3c.py ... ok
test_2 (__main__.lab3c.test_2)
[Lab 3] - [Investigation 2] - [Part 1] - Functions - Test for correct shebang line: ./lab3X.py ... ok
test_4_function_sum (__main__.lab3c.test_4_function_sum)
[Lab 3] - [Investigation 2] - [Part 1] - functions & arguments & logic - function operate() fails with 0 arguments ... ok
test_5_function_subtract (__main__.lab3c.test_5_function_subtract)
[Lab 3] - [Investigation 2] - [Part 1] - functions & arguments & logic - function operate() fails with 1 arguments ... ok
test_6_function_multiply (__main__.lab3c.test_6_function_multiply)
[Lab 3] - [Investigation 2] - [Part 1] - functions & arguments & logic - function operate() fails with 2 arguments ... ok
test_7_function_sum_output (__main__.lab3c.test_7_function_sum_output)
[Lab 3] - [Investigation 2] - [Part 1] - functions & arguments & logic - function operate() adds correctly test 1 ... ok
test_8_function_subtract_output (__main__.lab3c.test_8_function_subtract_output)
[Lab 3] - [Investigation 2] - [Part 1] - functions & arguments & logic - function operate() subtracts correctly test 1 ... ok
test_9_function_multiply_output (__main__.lab3c.test_9_function_multiply_output)
[Lab 3] - [Investigation 2] - [Part 1] - functions & arguments & logic - function operate() multiplies correctly test 1 ... ok
test_a_function_sum_output (__main__.lab3c.test_a_function_sum_output)
[Lab 3] - [Investigation 2] - [Part 1] - functions & arguments & logic - function operate() adds correctly test 2 ... ok
test_b_function_subtract_output (__main__.lab3c.test_b_function_subtract_output)
[Lab 3] - [Investigation 2] - [Part 1] - functions & arguments & logic - function operate() subtracts correctly test 2 ... ok
test_c_function_multiply_output (__main__.lab3c.test_c_function_multiply_output)
[Lab 3] - [Investigation 2] - [Part 1] - functions & arguments & logic - function operate() multiplies correctly test 2 ... ok
test_d_function_multiply_output (__main__.lab3c.test_d_function_multiply_output)
[Lab 3] - [Investigation 2] - [Part 1] - functions & arguments & logic - function operate() fails with division ... ok


----------------------------------------------------------------------
Ran 13 tests in 0.017s


OK
admin@fedora:~/ops445/lab3$
```

```
admin@fedora:~/ops445/lab3$ cd ~/ops445/lab3/
pwd #confirm that you are in the right directory
ls CheckLab3.py || wget 'https://github.com/senecaops445/lab3-template/blob/main/CheckLab3.py?raw=true' -O CheckLab3.py
python3 ./CheckLab3.py -f -v lab3d
/home/admin/ops445/lab3
CheckLab3.py
test_0 (__main__.lab3d.test_0)
[Lab 3] - [Investigation 2] - [Part 2] - Functions - Test for file creation: ./lab3d.py ... ok
test_a (__main__.lab3d.test_a)
[Lab 3] - [Investigation 2] - [Part 2] - Functions - Test for errors running: ./lab3d.py ... ok
test_a1 (__main__.lab3d.test_a1)
[Lab 3] - [Investigation 2] - [Part 2] - Functions - Test for correct shebang line: ./lab3d.py ... ok
test_a_function_free_space (__main__.lab3d.test_a_function_free_space)
[Lab 3] - [Investigation 2] - [Part 2] - functions & subprocess - Test function succeeds with 0 arguments ... ok
test_b_function_correct_output_free_space (__main__.lab3d.test_b_function_correct_output_free_space)
[Lab 3] - [Investigation 2] - [Part 2] - functions & subprocess - Test output shows free space of root ... ok
test_c_function_decode_free_space (__main__.lab3d.test_c_function_decode_free_space)
[Lab 3] - [Investigation 2] - [Part 2] - functions & subprocess - decode to utf-8 with string.decode('utf-8') successfully ... ok
test_d_function_strip_free_space (__main__.lab3d.test_d_function_strip_free_space)
[Lab 3] - [Investigation 2] - [Part 2] - functions & subprocess - strip the new line character with string.strip() successfully ... ok


----------------------------------------------------------------
Ran 7 tests in 0.064s


OK
admin@fedora:~/ops445/lab3$
```

```
admin@fedora:~/ops445/lab3$ cd ~/ops445/lab3/
pwd #confirm that you are in the right directory
ls CheckLab3.py || wget 'https://github.com/senecaops445/lab3-template/blob/main/CheckLab3.py?raw=true' -O CheckLab3.py
python3 ./CheckLab3.py -f -v lab3e
/home/admin/ops445/lab3
CheckLab3.py
test_0 (__main__.lab3e.test_0)
[Lab 3] - [Investigation 3] - [Part 1] - Functions - Test for file creation: ./lab3e.py ... ok
test_a (__main__.lab3e.test_a)
[Lab 3] - [Investigation 3] - [Part 1] - Functions - Test for errors running: ./lab3e.py ... ok
test_a1 (__main__.lab3e.test_a1)
[Lab 3] - [Investigation 3] - [Part 1] - Functions - Test for correct shebang line: ./lab3X.py ... ok
test_a_function_list (__main__.lab3e.test_a_function_list)
[Lab 3] - [Investigation 3] - [Part 1] - functions & lists - print first item in list ... ok
test_b_function_first (__main__.lab3e.test_b_function_first)
[Lab 3] - [Investigation 3] - [Part 1] - functions & lists - print first item in list ... ok
test_c_function_first_and_last (__main__.lab3e.test_c_function_first_and_last)
[Lab 3] - [Investigation 3] - [Part 1] - functions & lists - print last item in list ... ok
test_d_function_second_and_third (__main__.lab3e.test_d_function_second_and_third)
[Lab 3] - [Investigation 3] - [Part 1] - functions & lists - print last item in list ... ok


----------------------------------------------------------------------
Ran 7 tests in 0.017s

OK
admin@fedora:~/ops445/lab3$
```

```
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OPS445NCC.03898.2244
```
OK
```
admin@fedora:~/ops445/lab3$ cd ~/ops445/lab3/
pwd #confirm that you are in the right directory
ls CheckLab3.py || wget 'https://github.com/senecaops445/lab3-template/blob/main/CheckLab3.py?raw=true' -O CheckLab3.py
python3 ./CheckLab3.py -f -v lab3f
/home/admin/ops445/lab3
CheckLab3.py
test_0 (__main__.lab3f.test_0)
[Lab 3] - [Investigation 3] - [Part 3] - functions & lists & for loops - Test for file creation: ./lab3f.py ... ok
test_a (__main__.lab3f.test_a)
[Lab 3] - [Investigation 3] - [Part 3] - functions & lists & for loops - Test for errors running: ./lab3f.py ... ok
test_a1 (__main__.lab3f.test_a1)
[Lab 3] - [Investigation 3] - [Part 3] - functions & lists & for loops - Test for correct shebang line: ./lab3f.py ... ok
test_b_function_add_item_to_list (__main__.lab3f.test_b_function_add_item_to_list)
[Lab 3] - [Investigation 3] - [Part 3] - functions & lists & for loops - check for correct items in list ... ok
test_c_function_add_item_to_list (__main__.lab3f.test_c_function_add_item_to_list)
[Lab 3] - [Investigation 3] - [Part 3] - functions & lists & for loops - check for correct items in list ... ok
test_d_function_remove_items_from_list (__main__.lab3f.test_d_function_remove_items_from_list)
[Lab 3] - [Investigation 3] - [Part 3] - functions & lists & for loops - check for correct items in list ... ok
test_e_function_remove_items_from_list (__main__.lab3f.test_e_function_remove_items_from_list)
[Lab 3] - [Investigation 3] - [Part 3] - functions & lists & for loops - check for correct items in list ... ok


----------------------------------------------------------------------
Ran 7 tests in 0.016s

OK
admin@fedora:~/ops445/lab3$
```