

SOFTWARE TESTING METHODOLO HW 1

Pythonanywhere:

[Bash console 1711173](#)

```
21:22 ~/software_testing_class/lecture1 (master)$ python add.py
.case 1
.case 2A
.case 2B
.
-----
Ran 4 tests in 0.002s

OK
```

[Bash console 1711173](#)

```
21:20 ~/software_testing_class/lecture1 (master)$ python calc.py
.....
-----
Ran 5 tests in 0.000s

OK
21:20 ~/software_testing_class/lecture1 (master)$
```

[Bash console 1711173](#)

```
30         n = n + d * v
31         v = v / 10
32     return n
33
34 def evaluate(s):
35     if s.startswith("-"):
36         return evaluate(s[1:]) * -1
37     return evaluate_floating_point_number(s)
38
39 def multi_two(a, b):
40     return evaluate(a) * evaluate(b)
41
42 class Test_000_Calculator(unittest.TestCase):
43
44     def test_single_digit(self):
45         i = 0
46         for c in '0123456789':
47             self.assertEqual(evaluate(c), i)
48             i = i + 1
49
50     def test_multiple_digits(self):
51         self.assertEqual(evaluate('99999'), 99999)
52         self.assertEqual(evaluate('12345'), 12345)
53         self.assertEqual(evaluate('99999'), 99999)
54         self.assertEqual(evaluate('99'), 99)
55         self.assertEqual(evaluate('00'), 00)
56
57     def test_negative_numbers(self):
58         self.assertEqual(evaluate('-123'), -123)
59         self.assertEqual(evaluate('-1'), -1)
60         self.assertEqual(evaluate('0'), 0)
61         self.assertEqual(evaluate('---123'), -123)
62
63     def test_floating_numbers(self):
64         self.assertEqual(evaluate('123.456'), 123.456)
65         self.assertEqual(evaluate('-123.456'), -123.456)
66
67     def test_multi_two(self):
68         self.assertEqual(multi_two('123', '123'), 15129)
69         self.assertEqual(multi_two('-123', '123'), -15129)
70         self.assertEqual(multi_two('123.0', '10.0'), 1230)
71 if __name__ == "__main__":
72     unittest.main()
calc.py
"calc.py" 72L, 2015C
```

Local:

```
shuchang at Changs-Mac in ~/Desktop/software_testing_class/lecture1 on master
$ python add.py
.case 1
.case 2A
.case 2B
.
-----
Ran 4 tests in 0.000s

OK

shuchang at Changs-Mac in ~/Desktop/software_testing_class/lecture1 on master
$ python
python                python2.6             python2.7             pythonw               pythonw2.7
python-config         python2.6-config     python2.7-config     pythonw2.6
pythonw2.7-config

shuchang at Changs-Mac in ~/Desktop/software_testing_class/lecture1 on master
$ python calc.py
....
-----
Ran 4 tests in 0.000s

OK
```