

<https://github.com/jingyi199858/ssw567hw2>

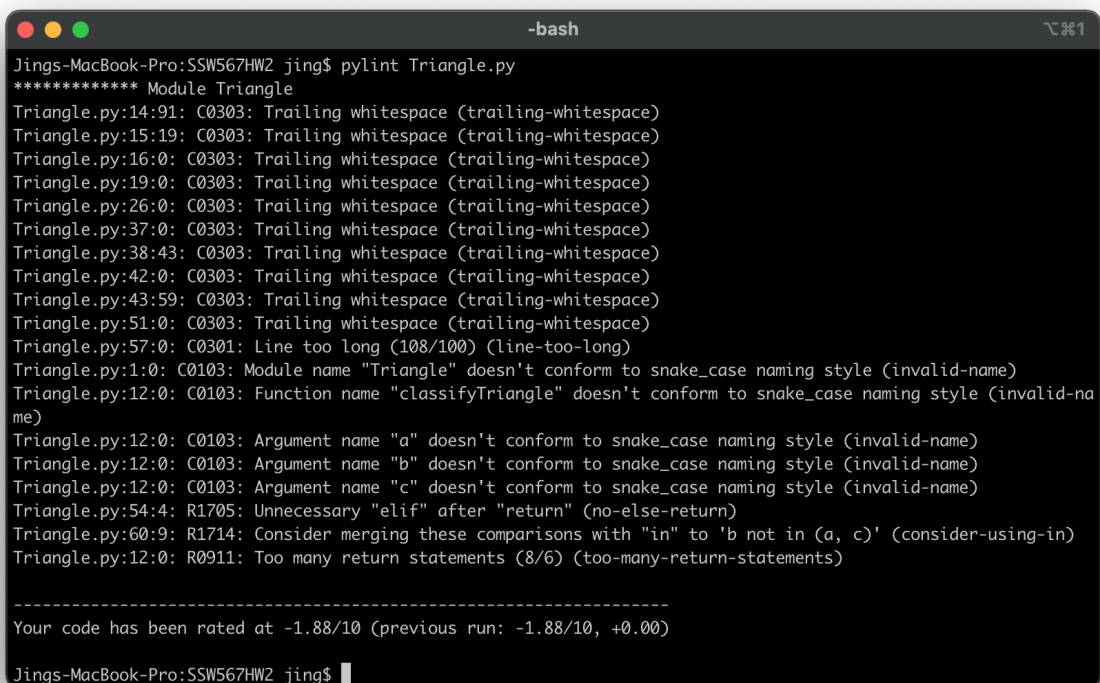
static code analyzer tool: pylint

code coverage tool: Coverage.py

Summary:

Pylint report is determined by the configuration. Some of the default configs are bit confusing such as snake case on single character. It's not necessary in runtime but help with readability. Must check test status when doing code revision; functions might change, causing tests to fail.

Pylint analyzer result

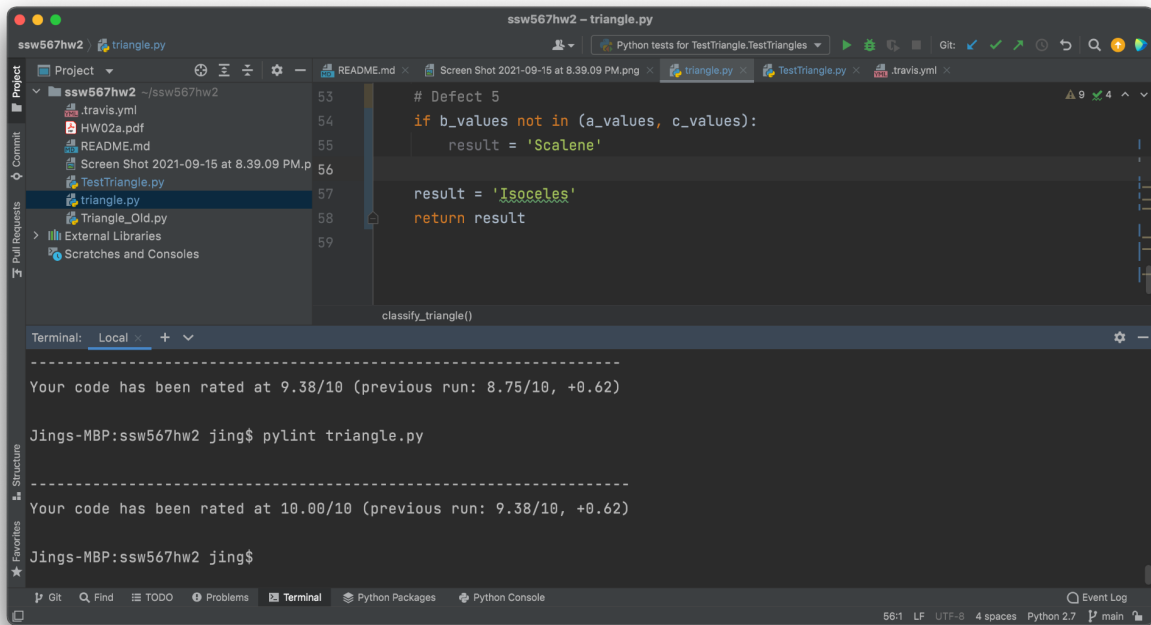
A terminal window titled "-bash" with a window icon in the top-left corner. The terminal shows the command "pylint Triangle.py" and its output. The output lists various pylint errors and warnings for the file Triangle.py, including trailing whitespace, naming style issues, and code quality suggestions. At the bottom, it shows a rating of -1.88/10.

```
Jings-MacBook-Pro:SSW567HW2 jing$ pylint Triangle.py
***** Module Triangle
Triangle.py:14:91: C0303: Trailing whitespace (trailing-whitespace)
Triangle.py:15:19: C0303: Trailing whitespace (trailing-whitespace)
Triangle.py:16:0: C0303: Trailing whitespace (trailing-whitespace)
Triangle.py:19:0: C0303: Trailing whitespace (trailing-whitespace)
Triangle.py:26:0: C0303: Trailing whitespace (trailing-whitespace)
Triangle.py:37:0: C0303: Trailing whitespace (trailing-whitespace)
Triangle.py:38:43: C0303: Trailing whitespace (trailing-whitespace)
Triangle.py:42:0: C0303: Trailing whitespace (trailing-whitespace)
Triangle.py:43:59: C0303: Trailing whitespace (trailing-whitespace)
Triangle.py:51:0: C0303: Trailing whitespace (trailing-whitespace)
Triangle.py:57:0: C0301: Line too long (108/100) (line-too-long)
Triangle.py:1:0: C0103: Module name "Triangle" doesn't conform to snake_case naming style (invalid-name)
Triangle.py:12:0: C0103: Function name "classifyTriangle" doesn't conform to snake_case naming style (invalid-name)
Triangle.py:12:0: C0103: Argument name "a" doesn't conform to snake_case naming style (invalid-name)
Triangle.py:12:0: C0103: Argument name "b" doesn't conform to snake_case naming style (invalid-name)
Triangle.py:12:0: C0103: Argument name "c" doesn't conform to snake_case naming style (invalid-name)
Triangle.py:54:4: R1705: Unnecessary "elif" after "return" (no-else-return)
Triangle.py:60:9: R1714: Consider merging these comparisons with "in" to 'b not in (a, c)' (consider-using-in)
Triangle.py:12:0: R0911: Too many return statements (8/6) (too-many-return-statements)

-----
Your code has been rated at -1.88/10 (previous run: -1.88/10, +0.00)

Jings-MacBook-Pro:SSW567HW2 jing$
```

After fix pylint report



The screenshot shows an IDE window titled "ssw567hw2 - triangle.py". The editor displays the following Python code:

```
53  
54 # Defect 5  
55 if b_values not in (a_values, c_values):  
56     result = 'Scalene'  
57  
58     result = 'Isocles'  
59     return result
```

The file explorer on the left shows the project structure, including files like `triangle.py`, `TestTriangle.py`, and `travis.yml`.

The terminal window at the bottom shows the output of a `pylint` command:

```
Terminal: Local +  
-----  
Your code has been rated at 9.38/10 (previous run: 8.75/10, +0.62)  
Jings-MBP:ssw567hw2 jing$ pylint triangle.py  
-----  
Your code has been rated at 10.00/10 (previous run: 9.38/10, +0.62)  
Jings-MBP:ssw567hw2 jing$
```

The status bar at the bottom indicates the file is 56 lines long, uses UTF-8 encoding, has 4 spaces for indentation, and is running Python 2.7.

Coverage report (First Run with 98%)

```
-bash
ut'), (22, (-4, -5, -6), 'InvalidInput', 'InvalidInput'), (23, (16, 1, 2), 'NotATriangle', 'NotATriangle'), (24,
(1, 16, 2), 'NotATriangle', 'NotATriangle'), (3, (5, 4, 3), 'Right', 'Right'), (4, (5, 12, 13), 'Right', 'Right'),
(5, (8, 15, 17), 'Right', 'Right'), (6, (1, 1, 1), 'Equilateral', 'Equilateral'), (7, (199, 199, 199), 'Equi
lateral', 'Equilateral'), (8, (10, 10, 10), 'Equilateral', 'Equilateral'))]
.24 [(1, (3, 4, 5), 'Right', 'Right'), (10, (0, 9, 5), 'InvalidInput', 'InvalidInput'), (11, (1, 9, 5), 'NotATri
angle', 'NotATriangle'), (12, (7, 9, 9), 'Isoceles', 'Isoceles'), (13, (7, 1, 1), 'NotATriangle', 'NotATriangle'),
(14, (0, 0, 0), 'InvalidInput', 'InvalidInput'), (15, (1, 1, 0), 'InvalidInput', 'InvalidInput'), (16, (1, 0,
0), 'InvalidInput', 'InvalidInput'), (17, (1, 2, 16), 'NotATriangle', 'NotATriangle'), (18, (201, 201, 201), 'I
nvalidInput', 'InvalidInput'), (19, (199, 199, 201), 'InvalidInput', 'InvalidInput'), (2, (5, 3, 4), 'Right', 'R
ight'), (20, (4.5, 6.7, 8.7), 'InvalidInput', 'InvalidInput'), (21, (-1, -4.5, -10), 'InvalidInput', 'InvalidInp
ut'), (22, (-4, -5, -6), 'InvalidInput', 'InvalidInput'), (23, (16, 1, 2), 'NotATriangle', 'NotATriangle'), (24,
(1, 16, 2), 'NotATriangle', 'NotATriangle'), (3, (5, 4, 3), 'Right', 'Right'), (4, (5, 12, 13), 'Right', 'Right'),
(5, (8, 15, 17), 'Right', 'Right'), (6, (1, 1, 1), 'Equilateral', 'Equilateral'), (7, (199, 199, 199), 'Equi
lateral', 'Equilateral'), (8, (10, 10, 10), 'Equilateral', 'Equilateral'), (9, (7, 9, 5), 'Scalene', 'Scalene'))]
.
-----
Ran 24 tests in 0.004s

OK
Jings-MacBook-Pro:SSW567HW2 jing$ coverage report
Name                Stmts  Miss  Cover
-----
TestTriangle.py      104     2    98%
triangle.py           18     0   100%
-----
TOTAL                 122     2    98%
Jings-MacBook-Pro:SSW567HW2 jing$
```