

HW05 - Static Code Analysis

For this homework assignment, all relevant code and output files can be found on my SSW-567 GitHub repository:

<https://github.com/bsalgado98/SSW-567/tree/master/HW05/pytest-env>

For the static code analyzer, I went with “Pylint” as my tool of choice. In the repository, the file “original_static_output.txt” shows the result of running the analyzer on my “Triangle.py” script which yielded a score of -3.12/10. The analyzer mainly complained about lines that were either lacking or had too much whitespace, non-standard variable names, if-else branching issues, and more obviously, the naming conventions of the entire file “Triangle.py” and the function “classifyTriangle” which also don’t conform to the Python naming convention.

After addressing most of these issues, the Pylinter only had one complaint left: too many return statements. I decided to leave this issue unchecked as the nature of the assignment required a variety of different return values. Overall, the analyzer ended with a score of 9.38/10.

In terms of coverage testing, I used the “coverage” python module. Running it against my original test cases yielded a 95% coverage result. I did not modify the test cases.