Sohan Chatterjee

SSW 567 HW 05

Static Code Analysis

To complete this exercise, I referred to my code from HW 02 where I corrected and improved the Triangle.py and TestTriangle.py files. When running the static code analyzer, I initially received a score of 1.88/10, mostly errors due to unnecessary whitespace as well as some naming conventions incorrectly following snake\_case and unnecessary “elif” statements. After corrections, I received a final score of 9.38/10. The single error that remains indicates that there are too many return statements (8, when only 6 are expected), but to me, all 8 seem necessary to ensure full functionality and output intended results so I have left them. Regarding TestTriangle.py, the coverage analysis that I ran on my initial code returned at 100% indicating that my tests covered all cases and parts of the code. After cleaning up the Triangle.py file to account for the static code analysis, I reran the coverage analysis, and it remained at 100%.

1. The GitHub URL containing the code that was analyzed

<https://github.com/sohanchatterjee/SSW-567/tree/main/HW-02>

1. The name and output of the static code analyzer tool you used

Pylint

1. The name and output of the code coverage tool you used

Coverage.py

1. Identify both your original test cases and new test cases that you created to achieve at least 80% code coverage.

Original test cases covered 100% code coverage. No new test cases made.

A screen shot of a computer program

Description automatically generated

1. Attach screen shots of the output of the static code analyzer as well as code coverage.  You should show a screen shot of the analysis results both before and after any changes that you make to your programs:
   1. A computer screen shot of a letter e

      Description automatically generatedStatic code analysis report on original program
   2. Code coverage report before any changes to the program

A screenshot of a computer

Description automatically generated

* 1. Static code analysis report after you have made changes to eliminate issues

A black screen with white text

Description automatically generated

* 1. Code coverage after any changes to the programs (coverage should be > 80%)

A screenshot of a computer

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