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**HW05-SSW-567: Static Code Analysis**

**03/16/2021**

**Summary:**

For this assignment, I choose SSW567 Repo which I was set up for this course mainly with Travis CI pipeline for HW04. The YML configuration is set up to execute unit tests on any changes to the repository, provided the tests are in the tests directory.

My HW02 files live in this repo, and pylint as well as Coverage both have scanned the master branch which allowed me to create a pull request and trigger reports on the changes made for this assignment.

1. Github link[: https://github.com/starkworld/SSW-567/tree/main/HW05](https://github.com/starkworld/SSW-567/tree/main/HW05)

2. Tools: Pylint and Coverage

3, 4, 5. Coverage- Output follows below

**Before Pre Changes (which is original Program)** –

Link: <https://github.com/starkworld/SSW-567/blob/main/HW05/PrechangeHTML.png>

Table

Description automatically generated with low confidence

**Pre change Pylint output:**

Link: <https://github.com/starkworld/SSW-567/blob/main/HW05/PreChange.png>

Graphical user interface, text

Description automatically generated

**Screen Dump of Testcases before:**

I missed to test some testcases and it effected me to get lower coverage percentage.

Text

Description automatically generated

**After changes(New testcases added):**

Link[: https://github.com/starkworld/SSW-567/blob/main/HW05/PostChangeHTML.png](https://github.com/starkworld/SSW-567/blob/main/HW05/postChange.png)

A picture containing graphical user interface

Description automatically generated

**Pylint After Changes:**

Link: <https://github.com/starkworld/SSW-567/blob/main/HW05/postChange.png>

Graphical user interface, text

Description automatically generated

**Screen Dump of Testcases After Changes:**

Before starting this assignment, there was 91% **statement** coverage on the Triangle file; however, the code was missing important validity checks. I figure it out and tested all possible testcases to get 100% coverage of the code.

Text

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