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CS362 Oregon State

In class activity week 8

GitHub Repo can be found at:

https://github.com/pattons-OSU/CS362_InClassActivities/tree/master/Week_8

Unittest output;

Quick unittest to make sure that the user input is considered to be the correct data type (int).

```
PS C:\Users\sup_u\Documents\College\CS362\On Git\CS362_InClassActivities\Week_8> python .\test_leap_year.py
Please enter the year that you would like to check: 3739830
.
-----
Ran 1 test in 0.000s
OK
PS C:\Users\sup_u\Documents\College\CS362\On Git\CS362_InClassActivities\Week_8>
```

Pytest output;

Having an issue with the beautification that I was originally attempting to perform on the program. While importing "OS", pytest was giving me an error.

```
PS C:\Users\sup_u\Documents\College\CS362\On Git\CS362_InClassActivities\Week_8> pytest .\test_leap_year.py
platform win32 -- Python 3.9.0, pytest-6.2.4, py-1.10.0, pluggy-0.13.1
rootdir: C:\Users\sup_u\Documents\College\CS362\On Git\CS362_InClassActivities\Week_8
plugins: cov-2.12.0
collected 0 items / 1 error

===== ERRORS =====
ERROR collecting test_leap_year.py
test_leap_year.py:18: in <module>
    import leap_year
test_leap_year.py:20: in <module>
    display_size = os.get_terminal_size()
E   OSError: [WinError 6] The handle is invalid

===== short test summary info =====
ERROR test_leap_year.py - OSError: [WinError 6] The handle is invalid
Interrupted: 1 error during collection
===== 1 error in 0.18s =====
PS C:\Users\sup_u\Documents\College\CS362\On Git\CS362_InClassActivities\Week_8>
```

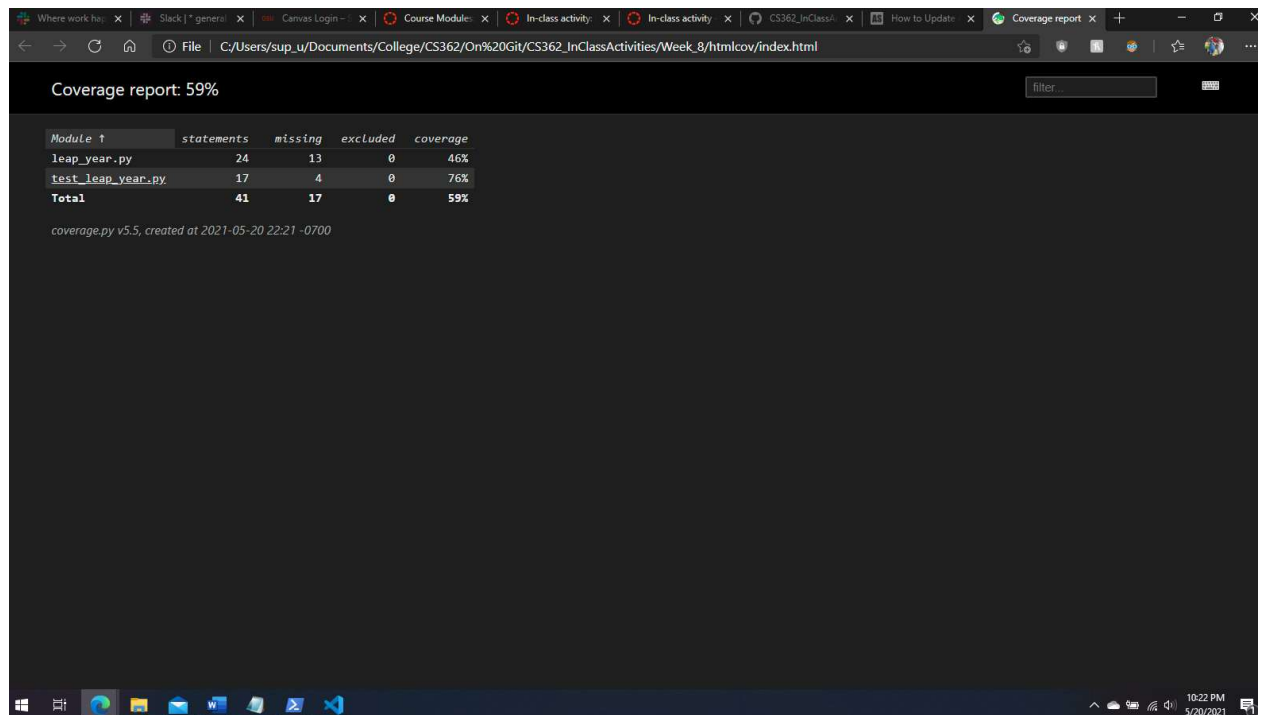
Coverage output;

Both "report" and "report -m" were run with the same output percentages. Running it like this ran it on all of the programs that were found within the folder.

```
PS C:\Users\sup_u\Documents\College\CS362\On Git\CS362_InClassActivities\Week_8> coverage report
Name                               Stmts  Miss  Cover
-----
leap_year.py                        24      13    46%
test_leap_year.py                   17       4    76%
TOTAL                               41      17    59%
PS C:\Users\sup_u\Documents\College\CS362\On Git\CS362_InClassActivities\Week_8> coverage report -m
Name                               Stmts  Miss  Cover  Missing
-----
leap_year.py                        24      13    46%    35-44, 51-58
test_leap_year.py                   17       4    76%    32-33, 37, 44
TOTAL                               41      17    59%
PS C:\Users\sup_u\Documents\College\CS362\On Git\CS362_InClassActivities\Week_8>
```

Coverage HTML;

This was definitely easier to visualize than the PowerShell output. I think mainly because the columns and the rows were significantly separated.



Module	statements	missing	excluded	coverage
leap_year.py	24	13	0	46%
test_leap_year.py	17	4	0	76%
Total	41	17	0	59%

coverage.py v5.5, created at 2021-05-20 22:21 -0700

Pytest COV;

With pytest --cov, I was running into the same issue with the import of the OS file. I think that this would be fixed if I hardcoded a year into the file and removed the beautification.

```
PS C:\Users\sup_u\Documents\College\CS362\On Git\CS362_InClassActivities\Week_8> pytest --cov=leap_year.py
platform win32 -- python 3.9.0, pytest-6.2.4, py-1.10.0, pluggy-0.13.1
rootdir: C:\Users\sup_u\Documents\College\CS362\On Git\CS362_InClassActivities\Week_8
plugins: cov-2.12.0
collected 0 items / 1 error

Coverage.py warning: Module leap_year.py was never imported. (module-not-imported)
Coverage.py warning: No data was collected. (no-data-collected)
WARNING: Failed to generate report: No data to report.

c:\users\sup_u\appdata\local\programs\python\python39\lib\site-packages\pytest_cov\plugin.py:271: PytestWarning: Failed to generate report: No data to report.
  self.cov_controller.finish()

===== ERRORS =====
ERROR collecting test_leap_year.py
test_leap_year.py:18: in <module>
    import leap_year
test_leap_year.py:20: in <module>
    display_size = os.get_terminal_size()
E   OSError: [WinError 6] The handle is invalid

----- coverage: platform win32, python 3.9.0-final-0 -----

===== short test summary info =====
ERROR test_leap_year.py - OSError: [WinError 6] The handle is invalid
Interrupted: 1 error during collection
===== 1 error in 0.20s =====

PS C:\Users\sup_u\Documents\College\CS362\On Git\CS362_InClassActivities\Week_8>
```