Simeon Patton

CS362 Oregon State

In class activity 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
============================ test session starts ============================
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
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>
```
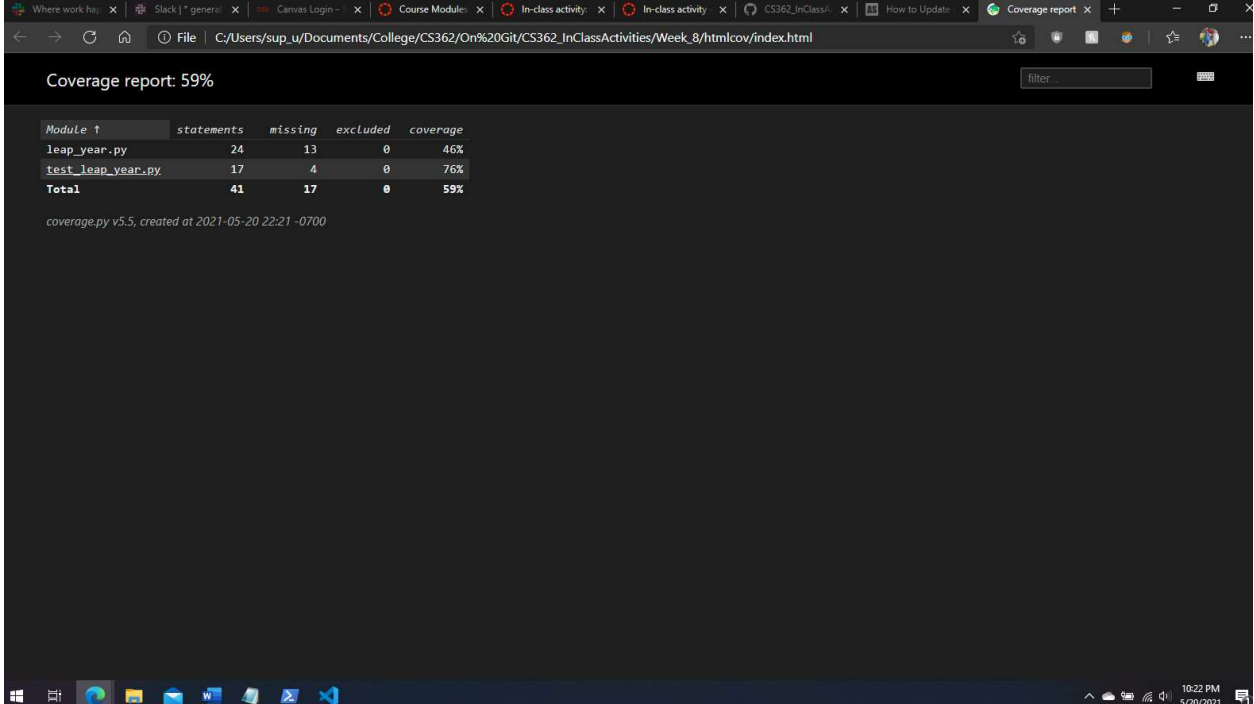
Coverage output;

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.

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.