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CS 362: 8 am T/R

3/4/2021

In class assignment

Link to GitHub files: https://github.com/alexgpitts/CS362-In-Class-Assignment-pytest--unittest-and-coverage-2

First, I started by running coverage.

```
nment-pytest--unittest-and-coverage>   coverage run test_fibonacci.py
test_fib_0 (__main__.TestCase) ... ok
test_fib_1000 (__main__.TestCase) ... ok
test_fib_9 (__main__.TestCase) ... ok


----------------------------------------------------------------------
Ran 3 tests in 0.001s
OK
```

Then I used coverages report command to display the report

```
nment-pytest--unittest-and-coverage> coverage report -m
Name                  Stmts   Miss  Cover   Missing
---------------------------------------------------------
fibonacci.py             18      6    67%    18-24
test_fibonacci.py        24      6    75%    20, 23, 26, 30, 33, 36
---------------------------------------------------------
TOTAL                    42     12    71%
```

Nest I fixed by tests because coverage was not running them all. I had them all set up like pytest, when I needed them in my unittest class.

```
nment-pytest--unittest-and-coverage> coverage run test_fibonacci.py
test_fac5 (__main__.TestCase) ... ok
test_fac_0 (__main__.TestCase) ... ok
test_fac_9 (__main__.TestCase) ... ok
test_fib_0 (__main__.TestCase) ... ok
test_fib_1000 (__main__.TestCase) ... ok


Ran 6 tests in 0.001s


OK
```

Now, when I ran the report command again, it showed all my test.

```
nment-pytest--unittest-and-coverage> coverage report -m
Name                    Stmts   Miss  Cover   Missing
----------------------------------------------------
fibonacci.py               18      0   100%
test_fibonacci.py          24      3    88%   30, 33, 36
----------------------------------------------------
TOTAL                      42      3    93%
```

Next, I ran the html command to generate an html page report

```
nment-pytest--unittest-and-coverage> coverage html
```

Coverage report: 93%

Module	statements	missing ↓	excluded	coverage
test_fibonacci.py	24	3	0	88%
fibonacci.py	18	0	0	100%
Total	42	3	0	93%

coverage.py v5.4, created at 2021-03-04 20:55 -0800

Next, I ran pytests coverage test on my file.

```
nment-pytest--unittest-and-coverage> pytest --cov=fibonacci
================================= test session starts =================================
platform win32 -- Python 3.9.1, pytest-6.2.2, py-1.10.0, pluggy-0.13.1
rootdir: C:\Users\pitts\Documents\School\Winter 2021\CS 362\Week 9\In Class Assignment\CS362-In-Class
-Assignment-pytest--unittest-and-coverage
plugins: cov-2.11.1
collected 9 items

test_fibonacci.py .........                                                       [100%]

----------- coverage: platform win32, python 3.9.1-final-0 -----------
Name            Stmts   Miss  Cover
------------------------------------
fibonacci.py       18      0   100%
------------------------------------
TOTAL              18      0   100%


================================= 9 passed in 0.10s =================================
PS C:\Users\pitts\Documents\School\Winter 2021\CS 362\Week 9\In Class Assignment\CS362-In-Class-Assig
nment-pytest--unittest-and-coverage>
```

Finally, I ran the html command for the pytest coverage test which generated an html report. It did overwrite my old one for some reason.

```
nment-pytest--unittest-and-coverage> pytest -v --cov=fibonacci --cov-report=html
======================================== test session starts ========================================
platform win32 -- Python 3.9.1, pytest-6.2.2, py-1.10.0, pluggy-0.13.1 -- c:\users\pitts\appdata\loca
l\programs\python\python39\python.exe
cachedir: .pytest_cache
rootdir: C:\Users\pitts\Documents\School\Winter 2021\CS 362\Week 9\In Class Assignment\CS362-In-Class
-Assignment-pytest--unittest-and-coverage
plugins: cov-2.11.1
collected 9 items

test_fibonacci.py::TestCase::test_fac5 PASSED                                                  [ 11%]
test_fibonacci.py::TestCase::test_fac_0 PASSED                                                 [ 22%]
test_fibonacci.py::TestCase::test_fac_9 PASSED                                                 [ 33%]
test_fibonacci.py::TestCase::test_fib_0 PASSED                                                 [ 44%]
test_fibonacci.py::TestCase::test_fib_1000 PASSED                                              [ 55%]
test_fibonacci.py::TestCase::test_fib_9 PASSED                                                 [ 66%]
test_fibonacci.py::test_fib_9 PASSED                                                           [ 77%]
test_fibonacci.py::test_fib_0 PASSED                                                           [ 88%]
test_fibonacci.py::test_fib_1000 PASSED                                                        [100%]

----------- coverage: platform win32, python 3.9.1-final-0 -----------
Coverage HTML written to dir htmlcov


======================================== 9 passed in 0.11s ========================================
PS C:\Users\pitts\Documents\School\Winter 2021\CS 362\Week 9\In Class Assignment\CS362-In-Class-Assig
nment-pytest--unittest-and-coverage>
```

Coverage report: 100%

Module	statements	missing ↓	excluded	coverage
fibonacci.py	18	0	0	100%
Total	18	0	0	100%

coverage.py v5.4, created at 2021-03-04 20:57 -0800