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CS 362: 8 am T/R

3/4/2021

In class assignment

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 coverage's report command to display the report

```
nment-pytest--unittest-and-coverage> coverage report -m
Name                               Stmt  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%
```

Next I fixed my 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\local\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 Assignment-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