

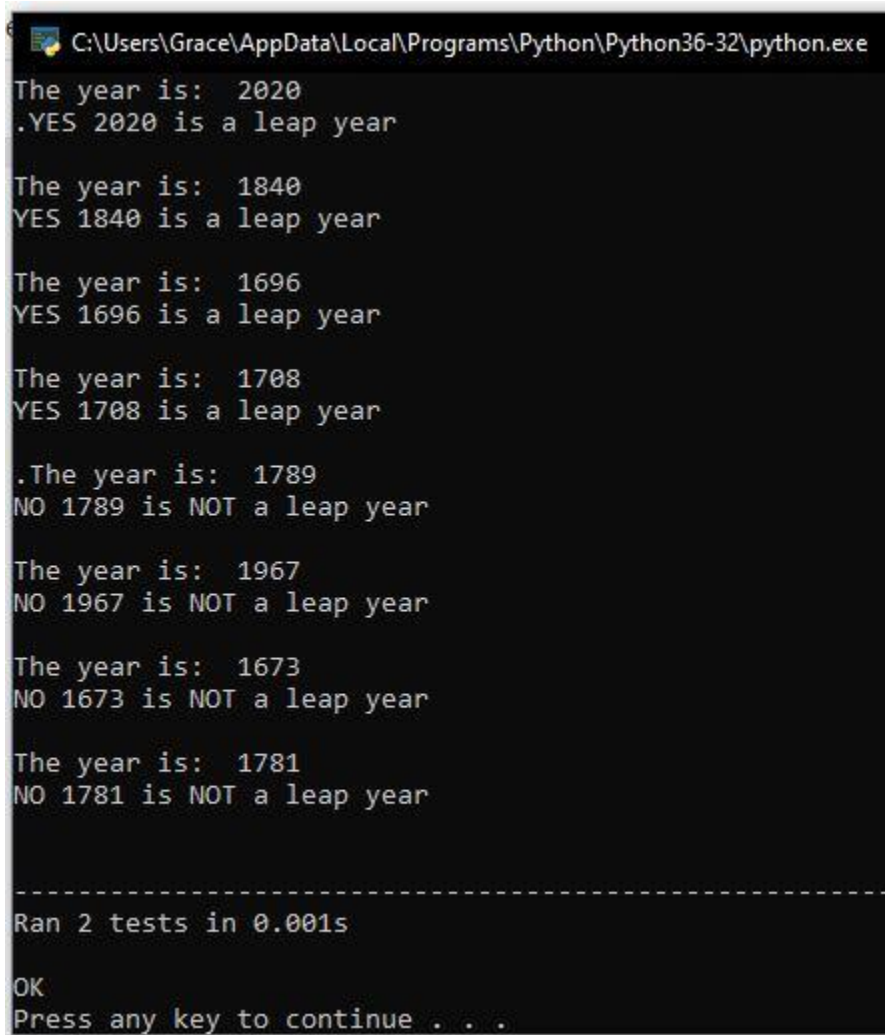
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CS 362: Software Engineering II

Spring 2021

In-class activity: unittest, pytest, Coverage, pytest-cov

Here is the output for the unittest testing:



```
C:\Users\Grace\AppData\Local\Programs\Python\Python36-32\python.exe
The year is: 2020
.YES 2020 is a leap year

The year is: 1840
YES 1840 is a leap year

The year is: 1696
YES 1696 is a leap year

The year is: 1708
YES 1708 is a leap year

.The year is: 1789
NO 1789 is NOT a leap year

The year is: 1967
NO 1967 is NOT a leap year

The year is: 1673
NO 1673 is NOT a leap year

The year is: 1781
NO 1781 is NOT a leap year

-----
Ran 2 tests in 0.001s

OK
Press any key to continue . . .
```

Four outputs test if the leap years are correctly identified, and the last four outputs test if the non-leap years are correctly identified.

Here is the output for the pytest testing:

```
C:\Users\Grace\source\repos\CS362\In-class Activity unittest pytest coverage pytest-cov>pytest
===== test session starts =====
platform win32 -- Python 3.9.5, pytest-6.2.4, py-1.10.0, pluggy-0.13.1
rootdir: C:\Users\Grace\source\repos\CS362\In-class Activity unittest pytest coverage pytest-cov
plugins: cov-2.12.0, forked-1.3.0, xdist-2.2.1
collected 2 items

test_leapYear.py ..

===== 2 passed in 0.05s ===== [100%]
```

One function tests that leap years are correctly identified, and the other function tests that non-leap years are also correctly identified.

Here is the output for the coverage report:

```
C:\Users\Grace\source\repos\CS362\In-class Activity\unittest\pytest\coverage\pytest-cov>coverage report -m
```

Name	Stmts	Miss	Cover	Missing
leapYearTest.py	27	14	48%	23-28, 41-44, 48-51, 54
test_leapYear.py	12	0	100%	
TOTAL	39	14	64%	

Coverage with html:

Coverage report: 64%

filter...

Module ↑	statements	missing	excluded	coverage
leapYearTest.py	27	14	0	48%
test_leapYear.py	12	0	0	100%
Total	39	14	0	64%

coverage.py v5.5, created at 2021-05-31 22:17 -0700