

Grace Todd  
CS 362: Software Engineering II  
Spring 2021

### In-class Activity: Unittest and pytest

#### Program 1: Palindrome

For unittest, the following is the output for the tests that are run:

```
C:\Users\Grace\AppData\Local\Programs\Python\Python36-32\python.exe
The string given is: tacocat
YES, tacocat is a palindrome.

The string given is: amoroma
YES, amoroma is a palindrome.

The string given is: racecar
YES, racecar is a palindrome.

The string given is: taco cat
NO, taco cat is not a palindrome.

The string given is: dennis
NO, dennis is not a palindrome.

The string given is: opportunity
NO, opportunity is not a palindrome.

-----
Ran 2 tests in 0.001s

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

For pytest, the following are the outputs for the tests that are run:

```
C:\Users\Grace\source\repos\CS362\In-class Activity Unittest and Pytest>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 and Pytest
collected 3 items

test_program1.py ... [100%]

===== 3 passed in 0.02s =====
```

## Program 2: Word Count

For unittest, the following is the output for the tests that are run:

```
C:\Users\Grace\AppData\Local\Programs\Python\Python36-32\python.exe
Input: Testing the word count function
Word count: 5

Input: Ask the user for a sentence and determine the number of words in that sentence
Word count: 15

Input: This is an activity
Word count: 4

Input: Write tests for the above specification using unittest and pytest.
Word count: 10

-----
Ran 1 test in 0.001s

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

For pytest, the test was run for both the first and second program:

```
C:\Users\Grace\source\repos\CS362\In-class Activity Unittest and Pytest>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 and Pytest
collected 5 items

test_program1.py ... [ 60%]
test_program2.py .. [100%]

===== 5 passed in 0.04s =====
```