Zachariah King
Assignment 7.2

<untitled> city_functions.py

```python
# Function that accepts city and country as parameters and returns a formatted string
def format_city_country(city, country):
    """Generate a formatted city and country couple."""
    city_location = f"{city}, {country}"
    return city_location.title()

# Call the function with different city, country values
print(format_city_country("Athens", "Greece"))
print(format_city_country("Beijing", "China"))
print(format_city_country("Berlin", "Germany"))
```

Shell

```
Athens, Greece
Beijing, China
Berlin, Germany

>>>
```

Zachariah King
Assignment 7.2

city_functions.py | test_cities.py *

```python
import unittest
from city_functions import format_city_country

class CitiesTestCase(unittest.TestCase) :
    """Tests for 'format_city_country.py'."""

    def test_city_country(self):
        city_location = format_city_country('athens', 'greece')
        self.assertEqual (city_location, 'Athens, Greece')

if __name__ == '__main__':
    unittest.main()
```

Shell

```
>>> %Run test_cities.py

  Athens, Greece
  Beijing, China
  Berlin, Germany
  .
  ----------------------------------------------------------------------
  Ran 1 test in 0.000s

  OK

  Process ended with exit code 0.

Python 3.10.11 (/Applications/Thonny.app/Contents/Frameworks/Python.fra
>>>
```

Zachariah King
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        city_location = format_city_country('athens', 'greece')
        self.assertEqual (city_location, 'Athens, Greece')

if __name__ == '__main__':
```

Shell

```
>>> %Run test_cities.py
  Traceback (most recent call last):
    File "/Users/ZachStormKing/csd/csd-325/module-7/test_cities.py", line 2, in <module>
      from city_functions import format_city_country
    File "/Users/ZachStormKing/csd/csd-325/module-7/city_functions.py", line 8, in <module>
      print(format_city_country("Athens", "Greece"))
  TypeError: format_city_country() missing 1 required positional argument: 'population'

>>>
```

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Assignment 7.2

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if __name__ == '__main__':
```

Shell

```
.
----------------------------------------------------------------------
Ran 1 test in 0.001s

OK

Process ended with exit code 0.
```

```
Python 3.10.11 (/Applications/Thonny.app/Contents/Frameworks/Python.framework/Versions/3.10/bin/python3.10)
>>>
```

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        self.assertEqual (city_location, 'Athens, Greece')

if __name__ == '__main__':
```

Shell

```
>>> %Run test_cities.py
  Traceback (most recent call last):
    File "/Users/ZachStormKing/csd/csd-325/module-7/test_cities.py", line 2, in <m
  odule>
      from city_functions import format_city_country
    File "/Users/ZachStormKing/csd/csd-325/module-7/city_functions.py", line 2
      def format_city_country(city, country, population='', language):
                                                         ^^^^^^^^^
  SyntaxError: non-default argument follows default argument

>>>
```

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        self.assertEqual (city_location, 'Athens, Greece')

if __name__ == '__main__':
```

Shell

```
.
----------------------------------------------------------------------
Ran 1 test in 0.000s

OK

Process ended with exit code 0.
```

Python 3.10.11 (/Applications/Thonny.app/Contents/Frameworks/Python.framework/Versions/3.10/bin/python3.10)

```
>>>
```

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Zachariah King
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city_functions.py | test_cities.py

```python
# Function that accepts city and country as parameters and returns a
def format_city_country(city, country, population='', language=''):
    """Generate a formatted city and country couple and its info."""
    if population or language:
        city_info = f"{city}, {country} - population {population}, {l
    else:
        city_info = f"{city}, {country}"
    return city_info.title()

# Call the function with different city, country values
```

Shell

```
>>> %Run city_functions.py

   Athens, Greece
   Beijing, China - Population 450000,
   Berlin, Germany - Population 2300000, German

>>>
```

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