

Week 5 Module 7.2 Assignment

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CSD325-H323 Advanced Python (2255-DD)

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Module 7.2 Assignment: Country Population and Language

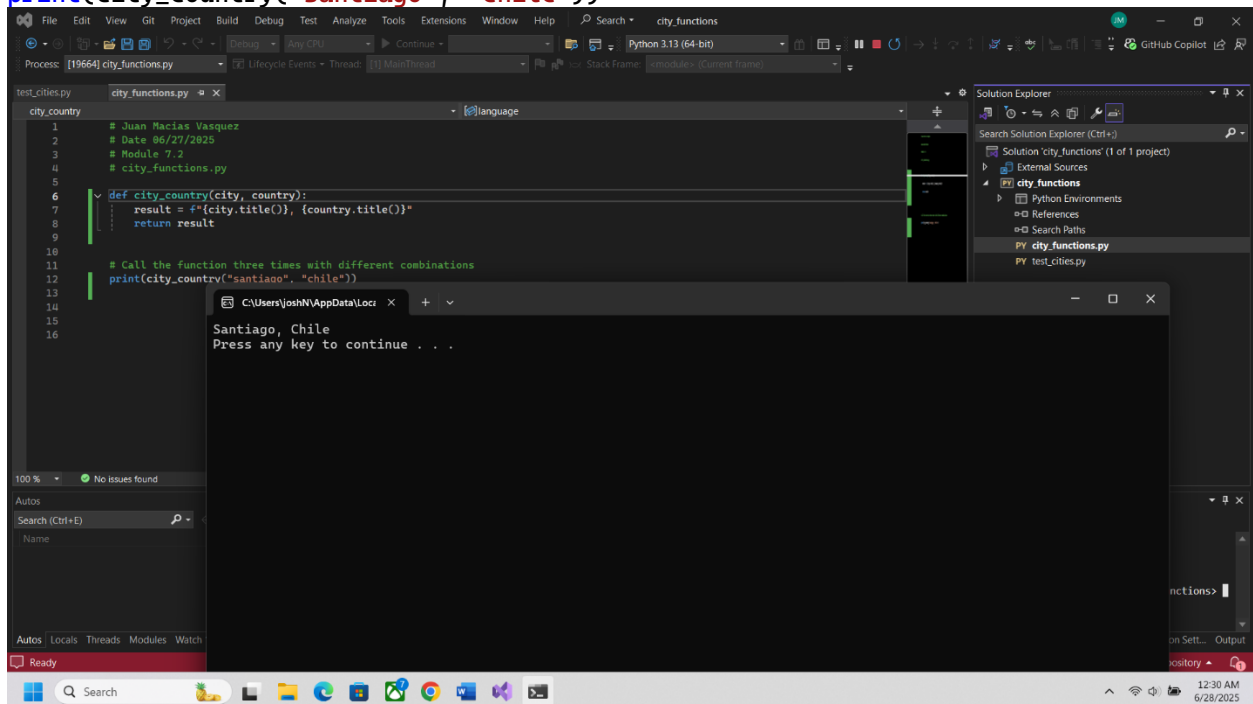
Results Document

Part 1 Code and Screenshot

```
# Juan Macias Vasquez  
# Date 06/27/2025  
# Module 7.2  
# city_functions.py
```

```
def city_country(city, country):  
    result = f"{city.title()}, {country.title()}"  
    return result
```

```
# Call the function three times with different combinations  
print(city_country("santiago", "chile"))
```

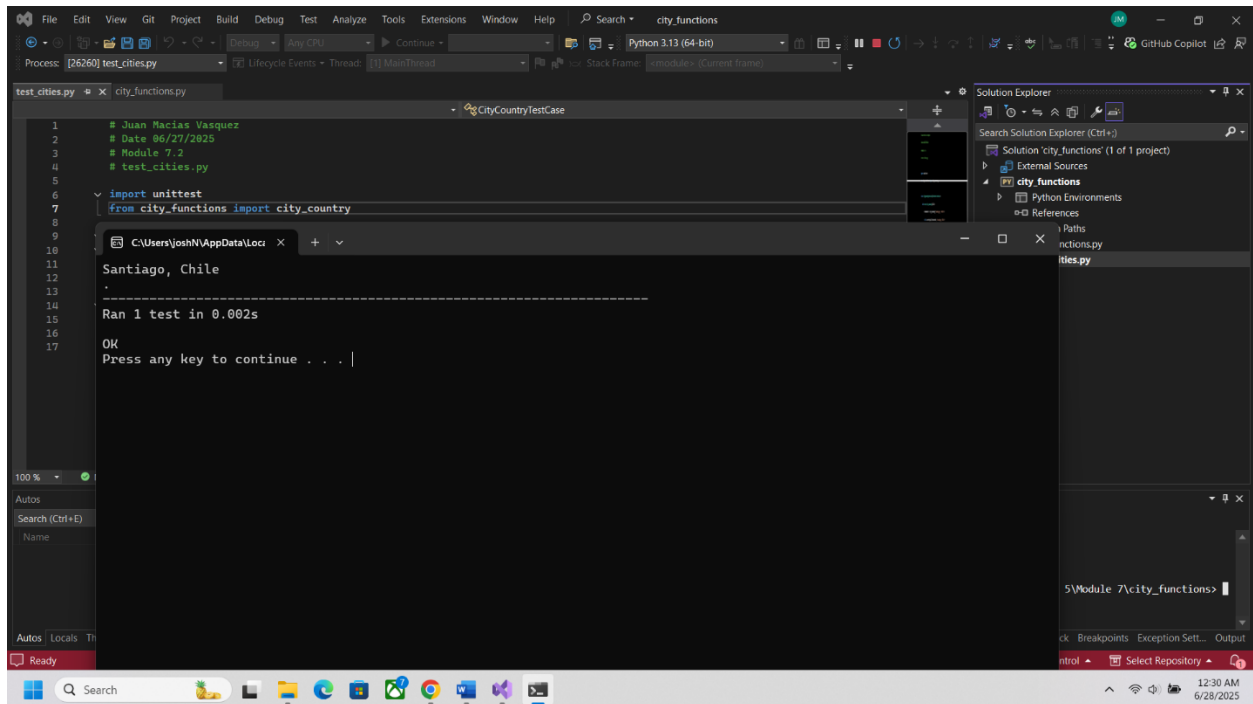


Part 2

```
# Juan Macias Vasquez  
# Date 06/27/2025  
# Module 7.2  
# test_cities.py
```

```
import unittest  
from city_functions import city_country  
  
class CityCountryTestCase(unittest.TestCase):  
    def test_city_country(self):  
        formatted = city_country('santiago', 'chile')  
        self.assertEqual(formatted, 'Santiago, Chile')  
  
if __name__ == '__main__':  
    unittest.main()
```

Picture

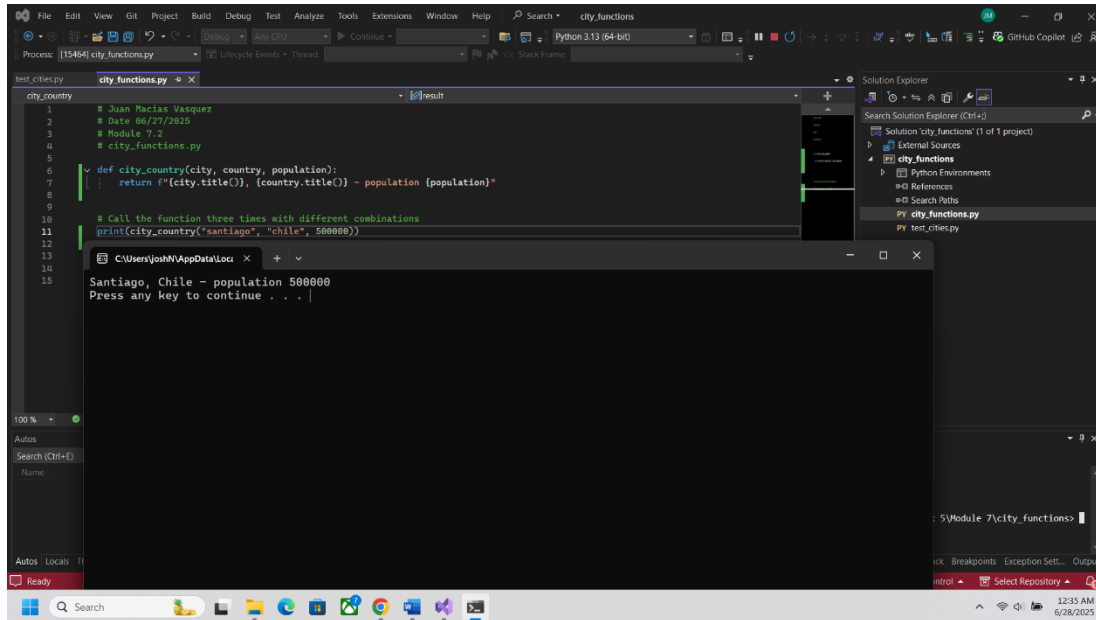


Part 3

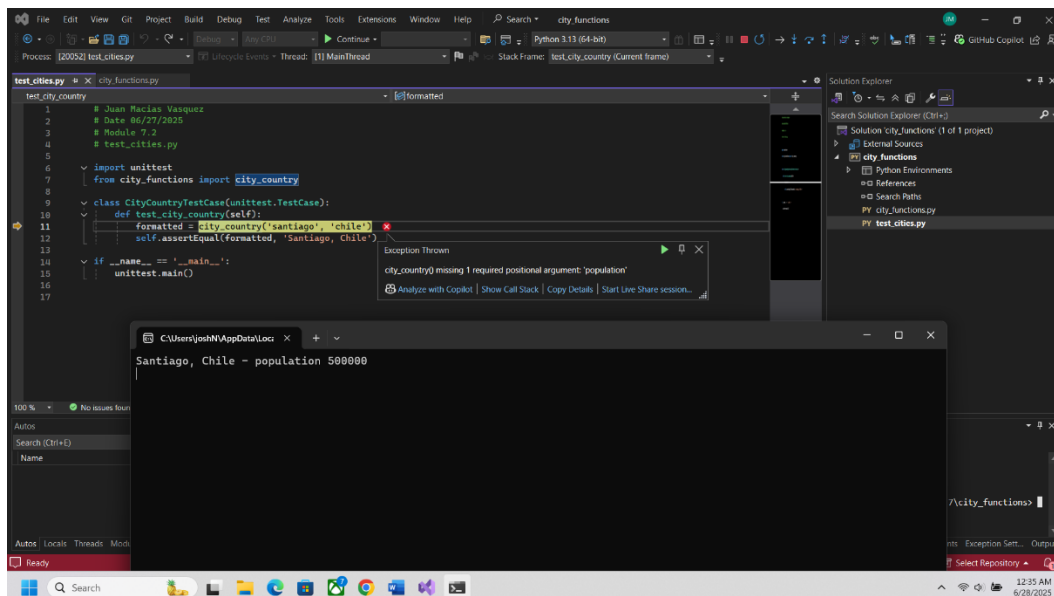
Changed city country To

```
def city_country(city, country, population):  
    return f"{city.title()}, {country.title()} - population {population}"
```

Picture from City Functions



`test_cities.py` fail at part 3

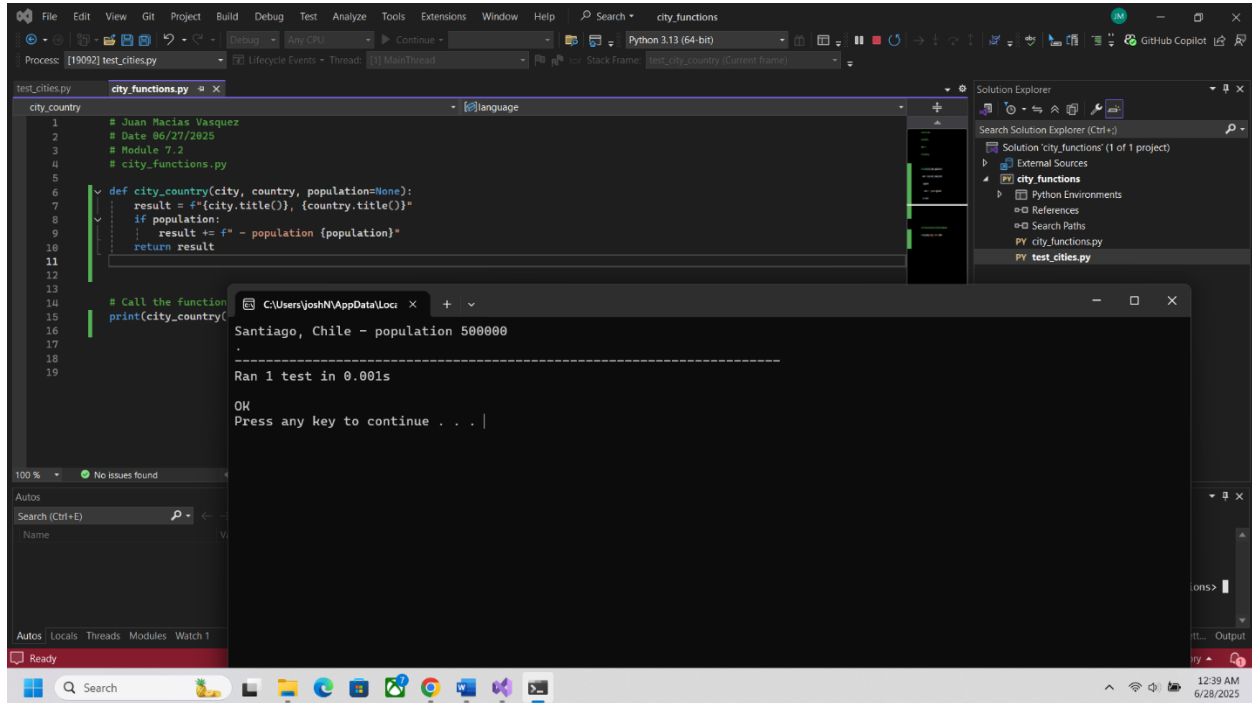


Part 4

Changed City Functions To make population optional

```
def city_country(city, country, population=None):  
    result = f"{city.title()}, {country.title()}"  
    if population:  
        result += f" - population {population}"  
    return result
```

Picture from it working now in test cities

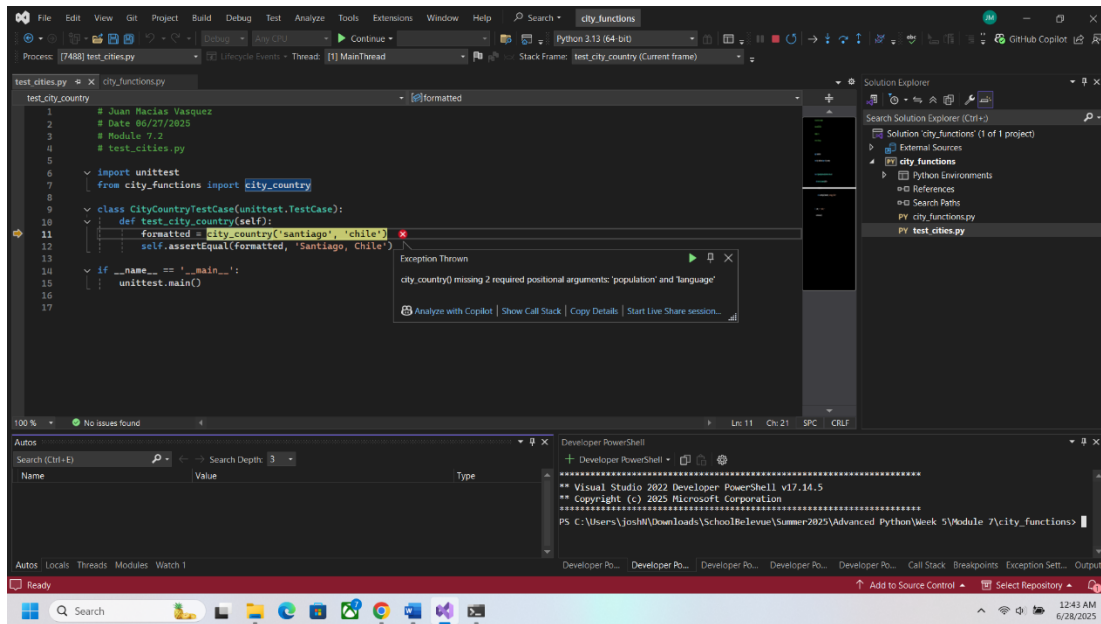


Part 5

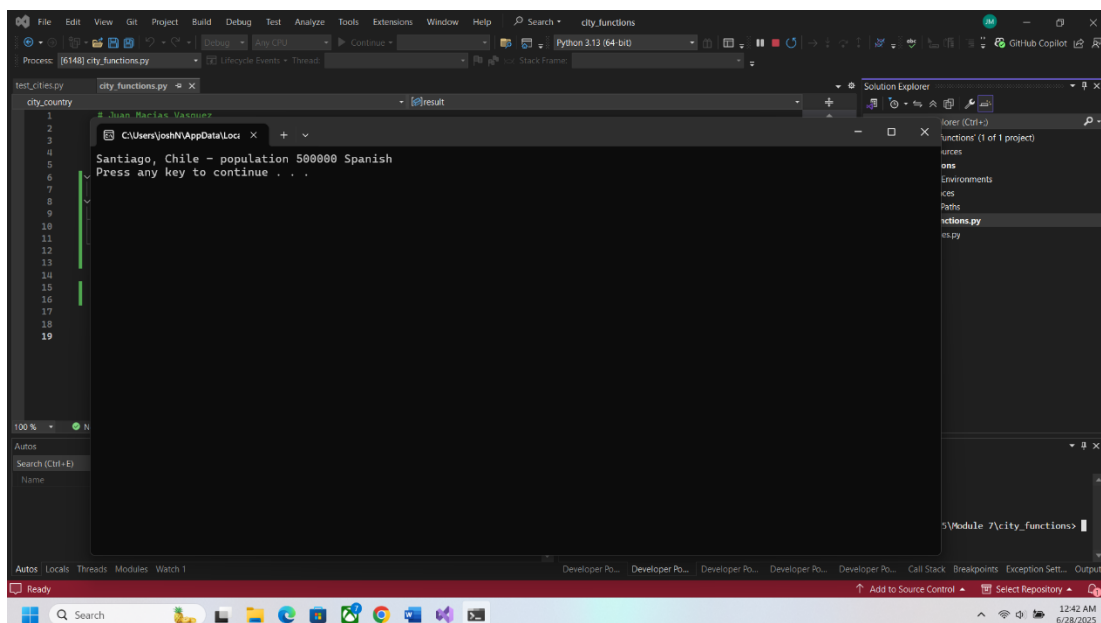
Updated Function to make a language parameter

```
def city_country(city, country, population=None, language ):
    result = f"{city.title()}, {country.title()}"
    if population:
        result += f" - population {population}"
    result += f" {language.title()}"
    return result
```

Picture from City Functions



Picture of Test cities failing

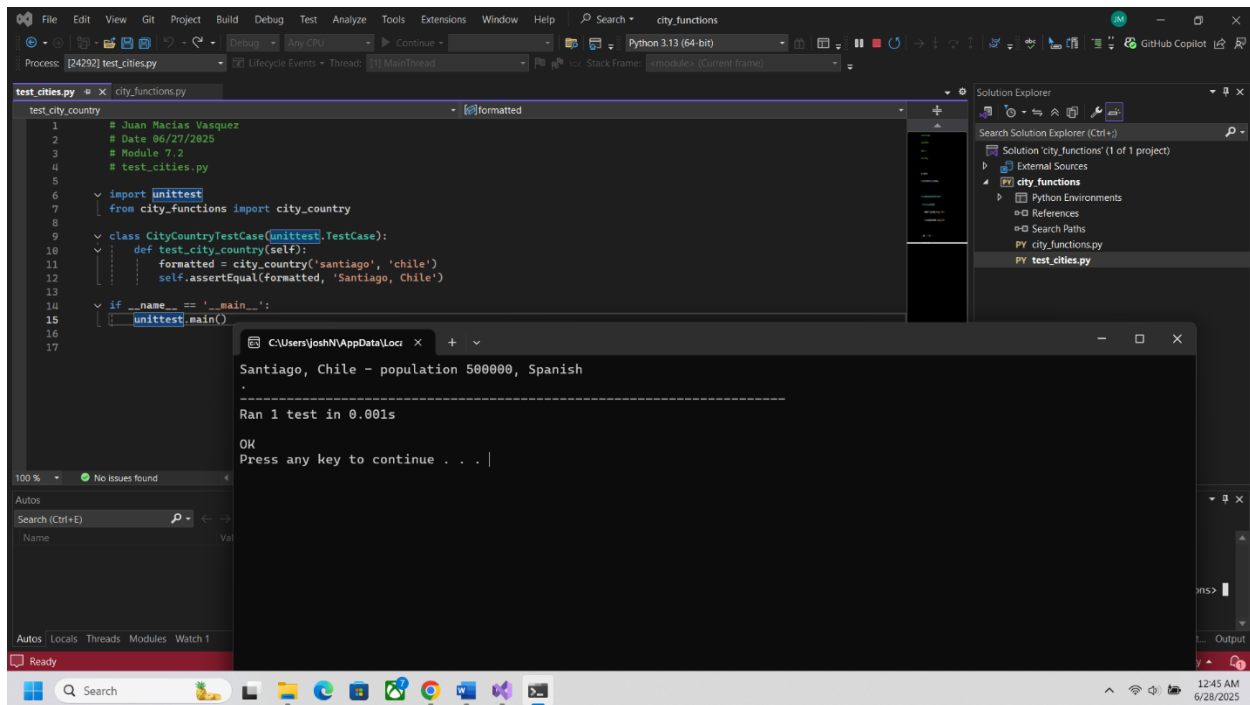


Part 6

Made Language parameter optional

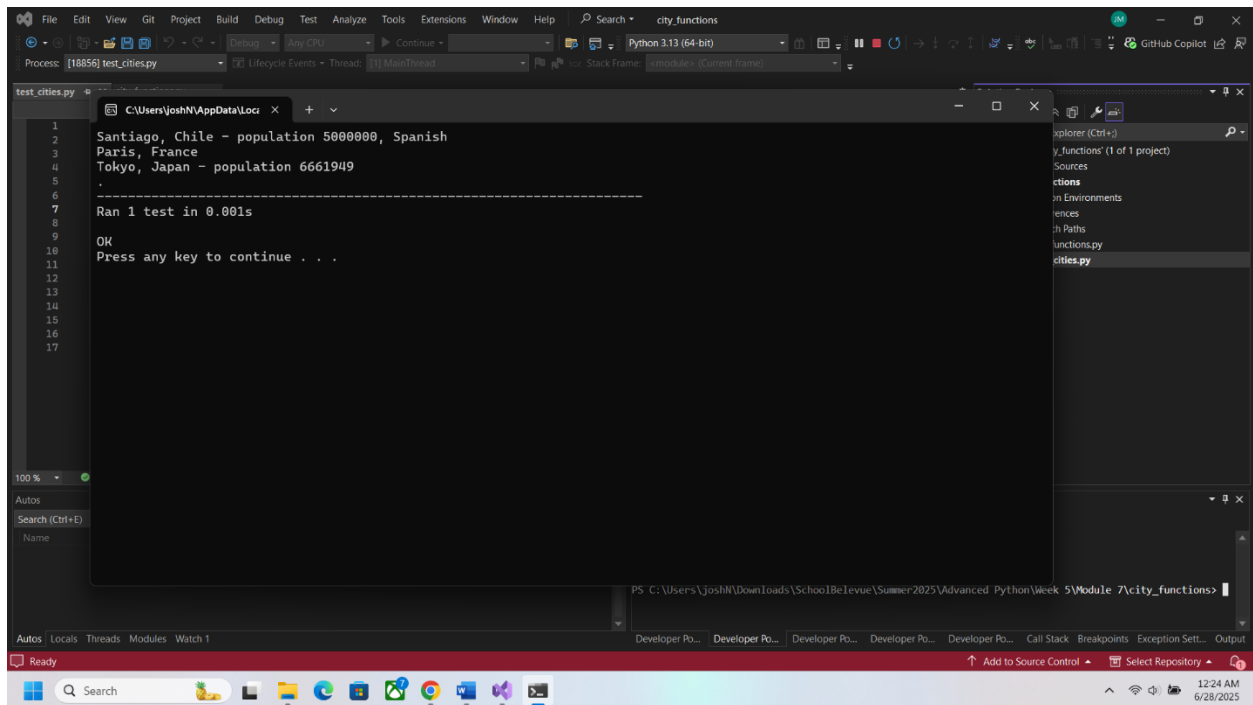
```
def city_country(city, country, population=None, language=None):  
    result = f"{city.title()}, {country.title()}"  
    if population:  
        result += f" - population {population}"  
    if language:  
        result += f", {language.title()}"  
    return result
```

Picture of Test cities now working



Part 7 Final

Adding three different countries with different parameters



The screenshot shows a Python IDE with a file named `test_cities.py` open. The code in the file is as follows:

```
1 Santiago, Chile - population 5000000, Spanish
2 Paris, France
3 Tokyo, Japan - population 6661949
4
5 -----
6
7 Ran 1 test in 0.001s
8
9 OK
10 Press any key to continue . . .
11
12
13
14
15
16
17
```

The IDE interface includes a menu bar (File, Edit, View, Git, Project, Build, Debug, Test, Analyze, Tools, Extensions, Window, Help), a toolbar with various icons, and a sidebar on the right with panels for Explorer, Search, and other development tools. The status bar at the bottom shows the current file path and the time 12:24 AM on 6/28/2025.