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CSD325 Advanced Python  
Module 7.2 Assignment – Test Cases

1. Write a function that accepts two parameters: a city name and a country name. The function should return a single string of the form City, Country, such as **Santiago, Chile**. Store the function in a file named city\_functions.py. In the same file, call the function at least three times using a City, Country values. Excecute city\_functions.py and take a screenshot of the result. Paste that screenshot into your Word document.  
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2. Create a file called test\_cities.py that tests the function you just wrote (remember that you need to import unittest and the function you want to test). Write a method called test\_city\_country() to verify that calling your function with values such as santiago and chile results in the correct string. Run test\_cities.py, and make sure test\_city\_country() passes. When it passes, take a screenshot of the result and paste in into your Word document.  
   A screen shot of a computer

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3. Modify your city\_country function in city\_functions.py so it requires a third parameter, population. It should now return a single string of the form City, Country - population xxx, such as **Santiago, Chile - population 5000000.**A black background with white text

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4. Run test\_cities.py again. It should fail. Take a screenshot of the result and paste into your Word document.  
   A screenshot of a computer program

   AI-generated content may be incorrect.
5. Now modify your city\_country function in city\_functions.py so that the population parameter is optional. Run test\_cities.py again. It should pass. Take a screenshot of the result and paste into your Word document.  
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6. Modify your city\_country function in city\_functions.py so it requires a fourth parameter, language. It should now return a single string of the form City, Country - population xxx, Language, such as **Santiago, Chile - population 5000000, Spanish**. Run test\_cities.py again. It should fail. Take a screenshot of the result and paste into your Word document.  
   A computer screen shot of a computer

   AI-generated content may be incorrect.
7. Now modify your city\_country function in city\_functions.py so that the language argument is optional. Run test\_cities.py again. It should pass. Take a screenshot of the result and paste into your Word document.  
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8. Run city\_functions.py. Call the function at least three times using a City, Country for one, City, Country, Population for the next and City, Country, Population, Language for the last. Execute city\_functions.py and take a screenshot of the result. Paste that screenshot into your Word document.  
   A screen shot of a computer

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