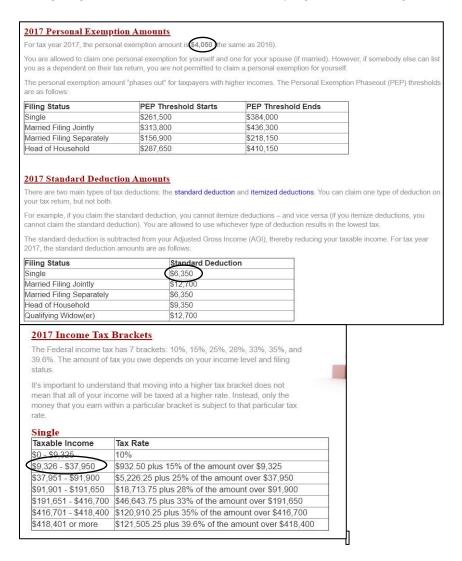
Unit Testing Lab

Download and unzip TaxCalculator from Canvas.

- 1. Alter the application so that it has dependency injection.
- 2. Write code in UnitTest1.cs that will test the calculations for the first and second tax brackets for 2017. For Tax Bracket One, a single person's income of \$11,300 should return a tax amount of \$90. For Tax Bracket Two, a single person's income of \$30,350 should return a tax amount of \$2526.25. Although we should test the "endpoints", it is not necessary for you to do for this lab.
- 3. Run your tests and verify that they pass. Note: Some students experience an issue when trying to run their tests. Instead of the test either passing or not, they get a "Not Run" message. This seems to happen when a project is zipped and then unzipped. However, some students don't have this issue. If you do have this issue, don't worry about getting the tests to run. You can show me how you get the other message instead.



Here is an example of how tax is figured for a single person's \$45,000 income.

45,000 - 6300 - 4050 = 34,600 Tax Due: 932.50 + (34600-9325)*.15 = \$4,723.75

Create a video and first show me the code in your controller so that I can verify that you have added dependency injection. Then run the tests for me and finally, run the application so that I can verify that it still works.