SQA Assignment 5

ASSUMPTIONS

* System is a single method called taxCalc()
* It takes in two inputs: X and Y
* X is filing status
* Y is income

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| **Test #** | **Input** | **Expected Output** | **Test Summary** |
| 1 | taxCalc(1) | Error: Incorrect Number of Parameters | This test should output an error if the number of parameters is below 2. |
| 2 | taxCalc(2, 500, 600) | Error: Incorrect Number of Parameters | This test should output an error if the number of parameters is above 2. |
| 3 | taxCalc(0, 500) | Error: Incorrect Filing Status parameter | This test should output an error if the X (filing status) parameter is below the lower bound. |
| 4 | taxCalc(3, 500) | Error: Incorrect Filing Status parameter | This test should output an error if the X (filing status) parameter is above the upper bound. |
| 5 | taxCalc(1, -1) | Error: Incorrect Income parameter | This test should output an error if the Y (income) parameter is below the lower bound (0). |
| 6 | taxCalc(1, 0.00) | Tax Bracket: $0.00+  Tax Rate: 2%  Tax: $0.00 | This tests the lower bound for the single filing, bottom tax bracket. |
| 7 | taxCalc(1, 499.99) | Tax Bracket: $0.00+  Tax Rate: 2%  Tax: $10.00 | This tests the upper bound for the single filing, bottom tax bracket. |
| 8 | taxCalc(1, 500.00) | Tax Bracket: $500.00+  Tax Rate: 4%  Tax: $20.00 | This tests the lower bound for the single filing, middle tax bracket. |
| 9 | taxCalc(1, 2999.99) | Tax Bracket: $500.00+  Tax Rate: 4%  Tax: $120.00 | This tests the upper bound for the single filing, middle tax bracket. |
| 10 | taxCalc(1, 3000.00) | Tax Bracket: $3000.00+  Tax Rate: 5%  Tax: $150 | This tests the lower bound for the single filing, top tax bracket. |
| 11 | taxCalc(2, 0.00) | Tax Bracket: $0.00+  Tax Rate: 2%  Tax: $0.00 | This tests the lower bound for the married filing, bottom tax bracket. |
| 12 | taxCalc(2, 999.99) | Tax Bracket: $0.00+  Tax Rate: 2%  Tax: $20.00 | This tests the upper bound for the married filing, bottom tax bracket. |
| 13 | taxCalc(2, 1000.00) | Tax Bracket: $1000.00+  Tax Rate: 4%  Tax: $40.00 | This tests the lower bound for the married filing, middle tax bracket. |
| 14 | taxCalc(2, 5999.99) | Tax Bracket: $1000.00+  Tax Rate: 4%  Tax: $240.00 | This tests the upper bound for the married filing, middle tax bracket. |
| 15 | taxCalc(2, 6000.00) | Tax Bracket: $6000.00+  Tax Rate: 5%  Tax: $300.00 | This tests the lower bound for the married filing, top tax bracket. |
| 16 | taxCalc(2, 6525.75) | Tax Bracket: $6000.00+  Tax Rate: 5%  Tax: $326.29 | This tests an output ($326.2875) is rounded to 2 decimal places. |