**Price and Tax Pseudocode**

Using the following pseudocode, provide 5 unique test cases that would help validate your algorithm. Be sure to place the test cases in a table showing the input values, and expected output for each test case.

Write "Enter the price in dollars:"

Input Price

Write "Enter state sales tax(e.g. .06) :"

Input SalesTax

Set Price = Price + (Price \* SalesTax)

Write "Price with Tax is" + Price

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| **Test Case** | **Input Price** | **Input Sales Tax** | **Expected Output** |
| **1** | 11 | 0.08 | 10.60 |
| **2** | 22 | 0.00 | 22.00 |
| **3** | 61 | -0.11 | 54.29 |
| **4** | 139 | 12.5 | 1876.50 |
| **5** | 81 | 7% | error |

1. The input for test case 1was a price of 10 dollars with a tax of 0.08. I chose these values base on an everyday example of price after sales tax. The output of 10.60 is expected because these numbers should not generate any errors.
2. In test case 2 the tax input value of 0.00 was chosen to show what happens when multiplying by zero which will always equal zero. The input price of 22 was chosen at random off a randomizer. The output of 22.00 was expected due to the number being multiplied by zero.
3. For test case 3 the input values 61 for the price was chosen and -0.11 for the tax. When you multiply a positive number by a negative number it will always result in a negative outcome. So the answer inside of the parentheses will be a negative number of -6.71. Once you ad 61 to -6.71 if will become a positive number with the result of 54.29
4. The input values for test case 4 are both larger numbers, with the Price input at 139 and the sales tax at 12.5. These values were chosen to give an example of what happens when large numbers are used. The expected output for test 4 was 1876.50
5. In test case 5 the tax input was chosen to generate an error. This was done by using the symbol “%” in the tax input line. The price amount of 81 was a random number chosen from a randomizer. The output will generate an error because the Input Sales Tax includes an undefined variable.