Security Scripting Midterm

Fun With Strings

For each of the following challenges, use good coding practices, including:

- Function descriptions
- Code comments
- Logging and debugging that can be turned on and off
    - In the code, indicate which line needs to be commented to turn off logging to the screen/terminal
- Properly formatted code (PEP8)
- Pythonic code (import this)

Word Adder

1. Create a Python module named word_calc.py. The module will consist of one function named adder that adds two words. The function is to be defined with two parameters. The parameters are to be two strings that represent numbers - one, two, three, etc. The function will return the result of adding the two numbers. The return value is a string. Limit the parameters to 'number words' in the range of zero to ten.
2. Create a test file that imports the module and calls the module's function. The test cases in this file must include at least two cases that call the function with the expected arguments and two cases that pass incorrect arguments (try to cause the program to crash).
3. Validate the user input and inform the user if the arguments are incorrect.

Equation Calculator

- Create a Python script that accepts user input in the form of an equation, e.g.
    - 5 + 7 or 5+7
- Accept + - * / as valid operators
- Limit equations to two numbers
- Inform the user if there are any errors in the input. Allow them to re-enter an equation.
- Print the answer to the console in the form of an equation, e.g.
    - 5 + 7 = 12