Assignment2A.py

Methodology:

1. Display legend to give the user instructions on how to properly submit logical statement
2. Take logical statement input from user
3. Validate statement is entered using proper syntax
4. Read truth values from user and replace P values in statement string with corresponding truth values
5. Split final string into a list and pass to compute function
6. Compute function implements the set as a queue and evaluates each element separately, reducing the queue size until a final result is reached
7. Print results

Assignmnt2B.py

Methodology:

1. Display legend to give the user instructions on how to properly submit logical statement
2. Take logical statement input from user
3. Validate statement is entered using proper syntax
4. Infer number of variables from given input statement
5. Generate all T/F permutations given number of variables
6. Pass each permutation to the compute function (same as in 2A) one at a time and compile each result in a list
7. Read from the result list to determine whether the given statement is a tautology, contradiction, or contingency
8. Print results