Assignments for 13-Dec-17

1. Write a program in Python to perform command line arguments multiplication. If no command line arguments are passed print error message and print result if proper arguments are passed.
2. Develop Python module to address following 3 functionalities of Fibonacci Series:
   - Normal method - Function to print the required fibonacci series, if function receives 10, then prints 10 fibonacci numbers
   - List - Function would return the list of fibonacci series
   - Tuple - Function would return the fibonacci numbers in a tuple

   Include main program to use above modules, main program to print the numbers (not list or tuple as it is)

3. Develop Python module to address following 3 functionalities of Prime Numbers:
   - Normal method - Function to print the whether passed number is prime or not, if function receives 10, then prints message ""10 is not a prime number""
   - List - Function would return the list of prime numbers accepting the range as arguments (if no arguments passed then default, it should take 1 and 100 as range)
   - Tuple - Function would return the list of prime numbers accepting the range as arguments (if no arguments passed then default, it should take 50 and 200 as range)

Include main program to use above modules, main program to print the numbers (not list or tuple as it is)

4. Develop Python module to address following 3 functionalities of Factorial of given numbers:
   - Normal method - Function to print the factorial of passed number, if function receives 5, then prints factorial of 5 is 120
   - List - Function would return the list of factorial values of passed list, if function receives [3, 5, 4] then it function to return [6, 120, 24]
   - Tuple - Function would return the factorial values of passed tuple in a tuple

NOTE: In list you implement logic of multiplying in descending order as 5 * 4 * 3 * 2 * 1 = 120 and in tuple implement logic of multiplying in ascending order as 1 * 2 * 3 * 4 * 5 = 120

Include main program to use above modules, main program to print the individual numbers (not list or tuple as it is)"

5. Develop Python package to include above modules of Fibonacci series, prime numbers and factorial numbers