Assignment 1: Write a Python function to find the Max of three numbers.

Assignment 2: Write a Python function to sum all the numbers in a list.

*Sample List*: (8, 2, 3, 0, 7)  
*Expected Output* : 20

Assignment 3: Write a Python function to multiply all the numbers in a list.

*Sample List*: (8, 2, 3, -1, 7)  
*Expected Output* : -336

Assignment 4: Write a Python program to reverse a string.

*Sample String*: "1234abcd"  
*Expected Output* : "dcba4321"

Assignment 5: Write a Python function to calculate the factorial of a number (a non-negative integer). The function accepts the number as an argument.

Assignment 6: Write a Python function to check whether a number is in a given range.

Assignment 7: Write a Python function that accepts a string and calculate the number of upper case letters and lower case letters.

*Sample String*: 'The quick Brow Fox'  
*Expected Output*:   
No. of Upper case characters : 3  
No. of Lower case Characters : 12

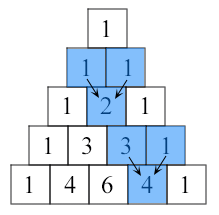
Assigment 8: Write a Python function to check whether a number is perfect or not.

/\*In number theory, a perfect number is a positive integer that is equal to the sum of its proper positive divisors, that is, the sum of its positive divisors excluding the number itself (also known as its aliquot sum). Equivalently, a perfect number is a number that is half the sum of all of its positive divisors (including itself).  
Example : The first perfect number is 6, because 1, 2, and 3 are its proper positive divisors, and 1 + 2 + 3 = 6. Equivalently, the number 6 is equal to half the sum of all its positive divisors: ( 1 + 2 + 3 + 6 ) / 2 = 6. The next perfect number is 28 = 1 + 2 + 4 + 7 + 14. This is followed by the perfect numbers 496 and 8128\*/

Assignment 9: Write a Python function that that prints out the first n rows of Pascal's triangle

Pascal's triangle is an arithmetic and geometric figure first imagined by Blaise Pascal.

Sample Pascal's triangle :



Each number is the two numbers above it added together

Assignment 10: Write a Python function to check whether a string is a pangram or not.

Note : Pangrams are words or sentences containing every letter of the alphabet at least once.  
For example : "The quick brown fox jumps over the lazy dog"