**Python Assignment**

**Assignment 1: Simple Arithmetic Operations**

Write a program that:

1. Takes two numbers as input from the user.
2. Performs addition, subtraction, multiplication, and division on these numbers.
3. Displays the results of each operation in a clear format.

*Example:*  
If the user inputs 10 and 5, the output should be:

* Sum: 15
* Difference: 5
* Product: 50
* Quotient: 2.0

**Assignment 2: Working with Strings**

Write a program that:

1. Takes a sentence as input from the user.
2. Displays the following:
   * The original sentence.
   * The sentence in all uppercase.
   * The sentence in all lowercase.
   * The total number of characters in the sentence (including spaces).

Complete the assignment as per your convince python tool like Jupyter Notebook.