Basic Data Types Challenge 5: Multiplication/Exponent Table App

Description:
You are responsible for writing a program that displays a multiplication table and exponentiation table for any given number. Each table should show mathematical results for operations performed with the given number and integers from 1 to 9.   The program will then print a series of messages to the user describing how cool mathematics truly is.

Step By Step Guide:
- Print a welcome message.
- Get user input for their name.
- Get user input for their number.
- Define a variable called message that will hold the following string:
  - name.title() + ", Math is cool!"

- Create a multiplication table that calculates the product of the number entered and the numbers 1 through 9.
- Create an exponent table that calculates the exponential power of the number entered raised to the power 1 through 9.
- Each result should be rounded to 4 decimals.
- Each line in your table can be created in a single print statement.
  - I would recommend getting one line to work correctly.
  - Copy and paste the line the correct number of times, changing values accordingly for each subsequent line.
  - We will later learn a more efficient way to accomplish this task.

- Each table should have its own heading as below.
- Each mathematical result should be formatted as below.

- Lastly, print a series of statements using the various string methods introduced.
  - Print msg
  - Print msg in lower case
  - Print msg in title case
  - Print msg in upper case

- Use at least 2 comments to describe sections of your code.
- "Chunk" your code so that is readable.
- Use appropriate and informative variable names.
- Format your output as below.

Example Output
Welcome to the Multiplication/Exponent Table App

What is your name: mike
What number would you like to work with: 2.35

Multiplication Table For 2.35

        1.0 * 2.35 = 2.35
        2.0 * 2.35 = 4.7
        3.0 * 2.35 = 7.05
        4.0 * 2.35 = 9.4
        5.0 * 2.35 = 11.75
        6.0 * 2.35 = 14.1
        7.0 * 2.35 = 16.45
        8.0 * 2.35 = 18.8
        9.0 * 2.35 = 21.15

Exponent Table For 2.35

        2.35 ** 1 = 2.35
        2.35 ** 2 = 5.5225
        2.35 ** 3 = 12.9779
        2.35 ** 4 = 30.498
        2.35 ** 5 = 71.6703
        2.35 ** 6 = 168.4252
        2.35 ** 7 = 395.7993
        2.35 ** 8 = 930.1284
        2.35 ** 9 = 2185.8017

Mike Math is cool!
        mike math is cool!
                Mike Math Is Cool!
                        MIKE MATH IS COOL!