

**Instructions:**

1. ALL DUE TIMES ARE IN EST
2. Write your code in VS Code, and upload the code to the BB Assignment.
3. Be sure to save the lab with your initials at then end so you know you're uploading the correct version to BB.
4. All answers must be your own code, and copy-and-paste answers will receive no credit.
5. You are limited to 2 submissions
6. **You must be in the lab session to get the lab's credit.**
7. If you cannot submit the lab by the end of the day, you can still submit it by the end of the next day with a 25% penalty.
8. Any lab submissions after two days of the lab class will be given a zero.

**Interactive Molarity Calculator**

Write a script to calculate how much of a compound is needed to make a solution of a given molarity. You will need to create variables to store:

- The molecular mass of the compound (in g/mol)
- The volume of solution you want to create (in ml)
- The desired concentration (molar M)

The different values you need for the calculation are requested interactively using `input` statements

- The formula will be:
  - $\text{Mass (g)} = \text{Concentration (mol/L)} * \text{Volume (L)} * \text{Formula Weight (g/mol)}$

Make the script `print` a summary of the input variables and the calculated value by passing all these as separate arguments to your `print` function.

**Complementing DNA**

Here's a short DNA sequence:

ACTGATCGATTACGTATAGTATTTGCTATCATACATATATATCGATGCGTTCAT

Write a program that will print the complement of this sequence.

*HINT:* we need to take our sequence and replace

A with T, T with A, C with G, and G with C. We'll have to make four separate calls to `replace`, and use the return value for each on as the input for the next one.