### ASSIGNMENT 2 – REE 200 & PET ENG 200

**Instruction:** Complete the following coding tasks *using* Python.

Task 1

Given a string s, return the string after replacing every uppercase letter with the same lowercase letter.

# Example 1:

Input: s = "Hello"

Output: "hello"

# Example 2:

Input: s = "here"

Output: "here"

# Example 3:

Input: s = "LOVELY"

Output: "lovely"

### Task 2

Given a string s, return a new string where every uppercase letter is converted to lowercase and every lowercase letter is converted to uppercase.

## Example:

Input: "HeLLo WoRLd"

Output: "hEllO wOrlD"

## Task 3

Given a string s, remove all uppercase letters and return the modified string.

## Example:

Input: "HelloWorld"

Output: "elloorld"

#### Task 4

Given a string s, return the number of uppercase and lowercase letters in that string.

# Example:

Input: "EngiNEEr"

Output: Uppercase: 4, Lowercase: 4

## Task 5

Remove all characters from a string that are not English letters (i.e., strip digits, punctuation, symbols, etc.).

## Example:

Input: "Data-Driven@2025!"

Output: "DataDriven"

### Task 6

Given the lengths of three sides of a triangle, compute the area using Heron's formula.

# Example:

*Input*: a = 3, b = 4, c = 5

Output: 6.0

### Task 7

Format a list of names to print neatly in a table using *ljust()*, *.rjust()*, or *.center()*.

## Task 8

Clean a string by:

- i. Removing leading/trailing whitespace (.strip())
- ii. Replacing all punctuation with an empty string
- iii. Removing all spaces

## Example:

Input: " Hello, World! "

Output: "HelloWorld"