

Basic Python Programming

Solve any two problems including Problem 2.

Problem 1:

Write a Python program that performs the following operations on a list:

- Take n numbers from the user as input and store them in a list.
- Find the sum and average of the numbers.
- Remove any duplicate numbers from the list.
- Print the final list, the sum, and the average.

Sample Input:

Enter numbers: 5 10 5 20 10

Sample Output:

List after removing duplicates: [5, 10, 20]

Sum: 35 and Average: 11.67

Problem 2:

Write a Python program that takes a list of student scores as input and performs the following operations:

- Set the maximum score to 100.
- Increase all other scores by the same percentage needed to raise the highest score to 100.
- If any student still has a score less than 60 after adjustment, increase their score to 60.

Sample Input:

Enter student scores (comma separated): 72, 85, 90, 60, 50

Sample Output:

Original Scores: [72, 85, 90, 60, 50]

Maximum Score: 90

Final Scores:[80.0, 94.44, 100.0, 66.67, 60.0]

Problem3:

Write a Python program that takes a string input from user, convert it into a list of words, and print each of the word in both lowercase, and uppercase.

Sample Input:

Enter a string: Python is fun

Sample Output:

python PYTHON

is IS

fun FUN