Problem Solving

Problem 1:

Write a program to give the following output for the given input

Example 1:

    Input: C1e7h3P4k11

    Output: CeeeeeeehhhPPPPkkkkkkkkkk

Example 2:

    Input: b3c6M4d15

    Output: bbbccccccMMMMddddddddddddddd

The number can be varies from 1 to 99.

The letters can be varies from a to z (or) A to Z.

Algorithms can be used:

- **Recursive Function Algorithms.** (or)
- **Nested Looping Algorithms.**

On examining any value will be inputted and tested accordingly.

Problem 2:

Write a program to calculate the Commission of any given input.

Table for Range Data

-	From	To	Commission
0	$1	$400	5%
1	$401	$800	4%
2	$801	$1200	3%
3	$1201	$9000	2%
4	$9001	$15000	1%

Final Working should be:

Example 1:

    Input: $589

    Output: Your commission rate is 4% you will get $23.56 and remaining amount is $565.44

Example 2:

    Input: $12452

    Output: Your commission rate is 1% you will get $ 124.52 and remaining amount is $1 2,327.48

Algorithms:

- **Put the data as _array object _or _array-of-arrays _.**

Problem 3:

In the given string, find the number of times words are repeated .

Example 1:

    Input: "virat sachin dhoni virat rahul virat rahul sachin "

    Output:

virat :   3
sachin : 2
dhoni : 1
rahul : 2

On examining any value will be inputted and tested accordingly.