**Data Structures Lab (CL-2001)**

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**Lab Task : Recursion**

**Question 1:**

Write a function for multiply (a, b), where a and b are both positive integers, but you can only use the +

or − operators.

Note: Use Recursion to solve the above problem.

**Question 2:**

Write a recursive function to generate the n-th Fibonacci number. The Fibonacci sequence is defined as

F(0) = 0, F(1) = 1, and for n >= 2, F(n) = F(n-1) + F(n-2).

Example:

Input (n) : 6

Output: 8

**Question 3:**

Write a recursive function to find the sum of the digits of a given integer.

Example:

Input: 12345

Output: 15