Lab Assignment
Week-6 Lab A

1. Given two numbers N and M. The task is to find the product of the 2 numbers using recursion.

   Note: The numbers can be both positive or negative.

   Examples:

   ```
   Input : N = 5 ,  M = 3
   Output : 15

   Input : N = 5  ,  M = -3
   Output : -15

   Input : N = -5  ,  M = 3
   Output : -15

   Input : N = -5  ,  M = -3
   Output:15
   ```

2. Given two integers **N** and **M**, the task is to find their LCM using recursion.

   Examples:

   Input: *N = 2, M = 4*

   Output: *4*

   Explanation: *LCM of 2, 4 is 4.*

   Input: *N = 3, M = 5*

   Output: *15*

   Explanation: *LCM of 3, 5 is 15.*

3. Given an integer **n**, the task is to find the sum of the series $\mathbf{1_1 + 2_2 + 3_3 + ... + n_n}$ using recursion.

   Examples:

   Input: *n = 2*

   Output: *5*

   $1_1 + 2_2 = 1 + 4 = 5$

   Input: *n = 3*

   Output: *32*

   $1_1 + 2_2 + 3_3 = 1 + 4 + 27 = 32$