The LNM Institute of Information Technology, Jaipur
CSE217L: Data Structure and Algorithms Lab
2022-23 Odd Semester

DSA LAB: AVL   **Time: 2 Hours**

Instructions:

- *Handle exceptions carefully*
- *Complete the task within the given duration*

1. Write a C program to perform following operations on AVL tree.

   a. A-AVL := CREATE-a-AVL ();

   b. A-AVL := INSERT-a-Node (Node-DV, A-AVL)
      Note: your INSERT function should handle the following rotations:
      (i)   LL-Rotations
      (ii)   RR-Rotations
      (iii)   LR-Rotations
      (iv)   RL-Rotations

   c. Count the number of each rotation.

   d. Node-ptr := SEARCH-a-Node (Node-DV, A-AVL);