Data Structure and Algorithm
Assignment-04 (Fall 2023)

Submission to be done on UCP PORTAL before
Due Date: Saturday, February 3, 2024, 5:00 PM

Task 1 (No C++ Code Required)

Consider the following key elements 100,50,85,176,69,57,43,33,121,17,16,12,9, -28

   a) Insert the above key element in the Binary Search Tree
   b) Delete Key 57, 121,16,85 from BST

Task 2 (No C++ Code Required)

Convert Binary Search Tree having key elements. 100,50,85,176,69,57,43,33,121,17,16,12,9, -28 into the AVL Tree.

   a) Balance factor should be written clearly at each step.
   b) Delete Key 100,33,121,9, from AVL Tree
   c) Explain Rotations at each step:
      - LL Rotation
      - RR Rotation
      - LR Rotation
      - RL Rotation

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