Data Structures and Algorithms Lab

07. Trees

Subject Code: 17ECSP201 **Lab No:** 07 **Semester:** III

Date: 3 & 5 Oct, 2017 **Batch:** C1&C2

Question: Computer Representation of a Binary Search Tree

Objective: Usage of list representation to implement a BST and its operations

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For the project in which you have already started implementing a Binary Search Tree, add the following:

- Comment the code
- Provide a menu in main for
    - Insertion into BST
    - Pre-order Traversal
    - In-order Traversal
    - Post-order Traversal
    - Delete from a BST
- Along with that, also add the following functions to the main menu:
    - Write a function to count the total number of nodes in a BST
    - Write a function to count the total number of leaf nodes in a BST
    - Write a function to sort and print the data from BST
    - Write a function to search a node in a BST
    - Write a function to find the in-order successor of the given node

**** Happy Coding ****