Data Structure and Algorithm Lab
Lab Sheet-9

Lab schedule: October 18, 2021
Submission deadline: October 24, 2021, 11.59 PM

Q1. Write a program to implement a binary search tree (BST) having following functionalities.

- **BSTInsert():** This function adds a given ITEM to the BST. If the ITEM already exists in the BST then it will not insert the ITEM any more.
- **BSTInorderStack()**: This function finds Inorder traversal sequence of a BST using stack. You are not supposed to use recursive implementation of Inorder traversal.

Q2. Write a program to perform deletion operation on BST. While deleting, consider all the deletion cases.

a. Deletion of node with degree 0.
b. Deletion of node with degree 1.
c. Deletion of node with degree 2.