University of Engineering & Management, Kolkata

Department of Computer Science & Engineering

DATA STRUCTURE LAB

Subject Code - CS392

SESSION- 2018 ODD SEM

ASSIGNMENT – VII

Objective – To implement

Binary Search Tree(Creation,Insertion)

Date of Assignment - 03.10.2018

Date of Submission - 10.10.2018

7.1 Write a C program to create a binary search tree using recursive function and display that.

7.2 Write a C program to create a binary search tree using non-recursive function and display that.

7.3 Write a C program to insert (by using a function) a specific element into an existing linked list and display that.

7.4 Write a C program to search an element in a BST and show the result.

7.5 Write a C program to implement a BST using array and display that.

7.6 Write a C program to take user name as input and display the sorted sequence of characters using BST.

7.7 Write a C program to sort a given set of integers using BST.

7.8 Write a C program to display a BST using Inorder,Preorder,Postorder.

7.9 Write a C program to Count the number of nodes present in a existing BST and display the highest element present in the BST.

7.10 Write a C program to prove that binary search tree is better than binary tree.