



University of Engineering and Management (UEM), Kolkata

Department of Computer Applications

Stream: MCA

Session: 2023-2025

**Subject Name: Advanced Data Structures with C
Laboratory**

Subject Code: MCACC294

Class taken by:

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**Topic: To implement Binary Search Tree (BST) in
terms of Creation, Insertion**

1. Write a C program to create a binary search tree using recursive function and display that.
2. Write a C program to create a binary search tree using non-recursive function and display that.
3. Write a C program to insert (by using a function) a specific element into an existing binary search tree and then display that.
4. Write a C program to search an element in a BST and show the result.
5. Write a C program to take user name as input and display the sorted sequence of characters using BST.
6. Write a C program to sort a given set of integers using BST.
7. Write a C program to display a BST using In-order, Pre-order, Post-order.
8. Write a C program to Count the number of nodes present in an existing BST and display the highest element present in the BST.
9. Write a C program to prove that binary search tree is better than binary tree.