

Data Structures

Unit-III Assignment

1. Define the tree data structure. List the types of tree. List some applications of Tree-data structure?
2. What are Binary trees? Write the C code to perform in-order traversal on a binary tree.
3. Write the recursive C function to count the number of nodes present in a binary tree.
4. Write a recursive C function to calculate the height of a binary tree.
5. Define Complete Binary Tree & Extended Binary Trees with Example.
6. Explain Binary trees & Traversing Binary trees.
7. Define Threaded Binary trees & Traversing Threaded Binary trees.
8. Explain Binary Search Tree (BST), Define Insertion and Deletion in BST with Example.
9. Explain Complexity of Search Algorithm, Path Length, AVL Trees.
10. In what scenario, Binary Search can be used?