

Lab 11 : Tree

Start Assignment

Due May 11 by 11:59pm **Points** 20 **Submitting** a file upload

Lab 11

1] Create a Binary tree template

Write your own version of a class template that will create a binary tree that can hold values of any data type. Demonstrate the class with a driver program.

Please demonstrate below listed functionalities:

- Insert Node
- Delete Node
- Search Node
- Print in order
- Print pre-order
- Print post order

2] Node Counter

Write a member function 'countNodes" in the above created binary tree template class that counts and returns the number of nodes in the tree.

3] Leaf Counter

Write a member function 'countLeaves" in the above created binary tree template class that counts and returns the number of leaf nodes in the tree.