

**Question**

- a) Implement a **Node** class with suitable attributes to store employee number and name of employees.
- b) Implement `displayNode ( )` method to display the details stored in a Node.
- c) Implement the **Tree** class with the following data members and methods.

<b>Tree</b>
<code>Node root</code>
<code>Node find(int emp )</code> <code>void insert(in emp, String name )</code> <code>void inOrder( )</code> <code>void preOrder( )</code> <code>void postOrder( )</code> <code>Node findRecursive( )</code> <code>void deleteAll( )</code>

- d) Implement a new method called `findRecursive( int emp)` which perform the find operation recursively.
- e) Implement a method called `deleteAll( )` to remove all the Nodes from the tree.
- f) Write a application to do the following.
  - i) Create a tree of 10 Nodes with the following details.

**Lab Exercise 4 – Trees****2023**

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Employee Number	Name
149	Anusha
167	Kosala
047	Dinusha
066	Mihiri
159	Jayani
118	Nimal
195	Nishantha
034	Avodya
105	Bimali
133	Sampath

- ii) Display the employee data using inorder, preorder and postorder traversing.
- iii) Allow the user to input any employee number from the keyboard and display the employee details if the employee exists in the tree.
- iv) Delete all the nodes from the binary search tree.
- v) Display the tree after deleting nodes.