

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.

Tree
Node root
Node find(int emp) void insert(in emp, String name) void inOrder() void preOrder() void postOrder() Node findRecursive() void deleteAll()

- 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**2022**

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.