**Module: Binary Trees and Tree Traversals**

Learning outcome:

* To comprehend the properties of binary trees and its components
* To write a tree class
* To perform traversals on a binary tree

Exercise 1: Staff organization structure

A tree is a structure that is defined recursively whereby each node could have arbitrary number of subtrees or children. A binary tree, on the other hand, is where all nodes may have at most 2 children.

**1. Write** a binary tree class that implements a binary tree of Staff objects to record the following organizational structure.

Ali – Ahmad, Alwi

Alwi – Che Salmi, Dalilah

Che Salmi – Farid, Eliza

Dalilah – Ramlee, Sharifah

Ramlee - Yahya

The class should include functions that perform tree traversal strategies:

* + - * pre-order traversal
      * post traversal
      * in order traversal

2. Draw the tree