📘 3. Binary Tree – Data Structure

◆ **Definition:**

A **Binary Tree** is a tree data structure in which each node has at most **2 children**: left and right.

◆ **Types:**

- **Full Binary Tree**

- **Complete Binary Tree**

- **Perfect Binary Tree**

- **Skewed Tree**

◆ **Traversals:**

- **Inorder (Left, Root, Right)**

- **Preorder (Root, Left, Right)**

- **Postorder (Left, Right, Root)**

- **Level Order (BFS)**

◆ **Applications:**

- Expression trees

- Decision trees

- Parsing syntax trees
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