**Tree:**

Tree represents the nodes connected by edges. We will discuss binary tree or binary search tree specifically.

Binary Tree is a special data structure used for data storage purposes. A binary tree has a special condition that each node can have a maximum of two children. A binary tree has the benefits of both an ordered array and a linked list as search is as quick as in a sorted array and insertion or deletion operation are as fast as in linked list.



**Important Terms:**

Following are the important terms with respect to tree.

* **Path** − Path refers to the sequence of nodes along the edges of a tree.
* **Root** − The node at the top of the tree is called root. There is only one root per tree and one path from the root node to any node.
* **Parent** − Any node except the root node has one edge upward to a node called parent.
* **Child** − The node below a given node connected by its edge downward is called its child node.
* **Leaf** − The node which does not have any child node is called the leaf node.