**Heap**

**Define:** “A Heap is a special Tree-based data structure in which the tree is a complete binary tree.”

**Properties of Heap:**

**Max - Heap:** Complete Binary Tree. Recursively every element should be greater than its children.

**Min - Heap:** Complete Binary Tree. Recursively the value of Parent is less than value of children.

**The root element will be at arr[0] i.e. arr[i]**

arr[(i-1)/2] Returns the **Parent** node

arr[(2\*i)+1] Returns the **left child** node

arr[(2\*i)+2] Returns the **right child** node