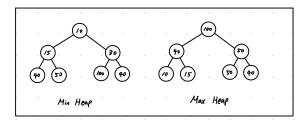
Heap Data Structure

· A Heap is a special Tree based data structure in which the tree is a completely binary tree

Operations of Heap Data Structure:

- 1) Heapity: A process of creating a heap from an away
- (2) Insertion: Process to insert an element in existing heap time. Complexity: O(log N)
- 3 Deletion: Deleting the top element of the hope or the highest priority element, and then organizing the hope and returning the element w/ time Gomplexity 0(log N)
- 4 Peek: to check or find the first (or top) element of the heap.



Max-Heap: the Key present at the root node mut be preated among the Keys present at all of its children

Min-Heap: the Key present at the root node mut be minimum among the Keys present at all of its children