📘 4. Heap – Data Structure

🔹 **Definition:**

A **Heap** is a **complete binary tree** where the value of the parent node is:

- **Greater** than children in **Max Heap**
- **Smaller** than children in **Min Heap**

🔹 **Operations:**

- **Insert:** O(log n)
- **Delete (Root):** O(log n)
- **Peek (Root):** O(1)

🔹 **Applications:**

- Priority Queue
- Heap Sort
- Dijkstra’s Algorithm
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