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Data Structures Using C++

Prerequisites:-

- Basic concept of C++
- Function in C++
- Array in C++
- Structure & Union in C++
- String in C++
- Pointers in C++

#Arrays:-

- Introduction to arrays.
- **Types of Arrays.**
 - Linear Arrays
 - Multi-Dimensional Arrays
- Insertion and Deletion.
- Advantages of Arrays.
- Limitations of Arrays.

#Linked List:-

- Introduction to Linked List.
- Implementation of Linked List in C++.

- **Types of Linked List.**
 - Singly Linked List
 - Doubly Linked List
 - Circular Linked List
- Advantages and Disadvantages of Linked List.
- Linked Lists VS Arrays.

#Stack:-

- Introduction to Stack.
- Implementation of Stack in C++.
 - Operations of Stack.
- Applications of Stack.

#Queue:-

- Introduction to Queue.
- Implementation of Queue in C++.
- Operations of Queue.
- **Types of Queue.**
 - Priority Queue
 - Double Ended Queue
 - Circular Queue
- Applications of Queue.

#Trees:-

- Introduction to Trees.
- Types of Trees.
- General Tree
- Binary Tree
- Binary Search Tree
- Tree Traversal Techniques.
- InOrder Traversal
- PreOrder Traversal
- PostOrder Traversal

#Graphs:-

- Introduction to Graphs.
- Implementation of Graphs in C++.
- Types of Graphs.
- Directed Graph
- Undirected Graph

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- ❖ Premium experience with Interactive Panels & other Audio-Visual equipment's in Virtual Classrooms (Online Mode)
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- ❖ Immediate Error Solving & Doubt Assistance

