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
  - Multidimensional 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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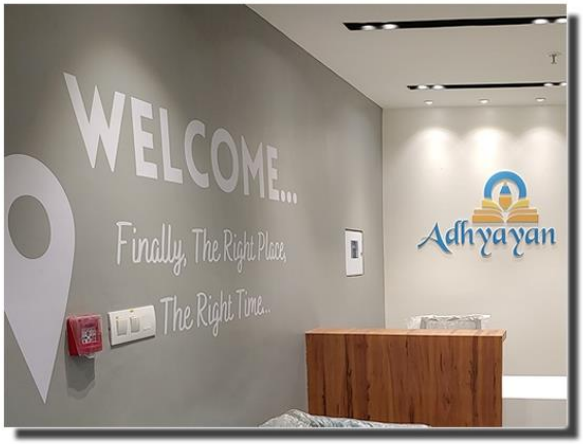

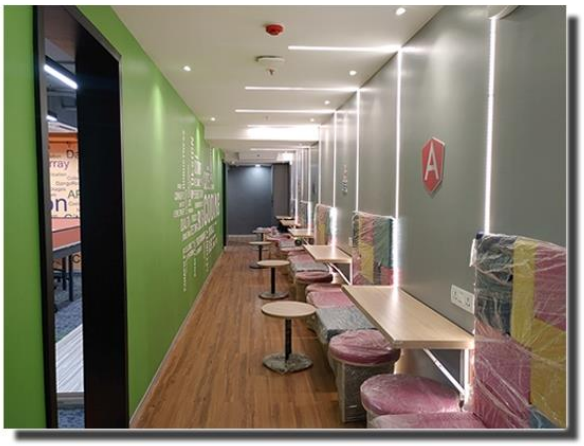

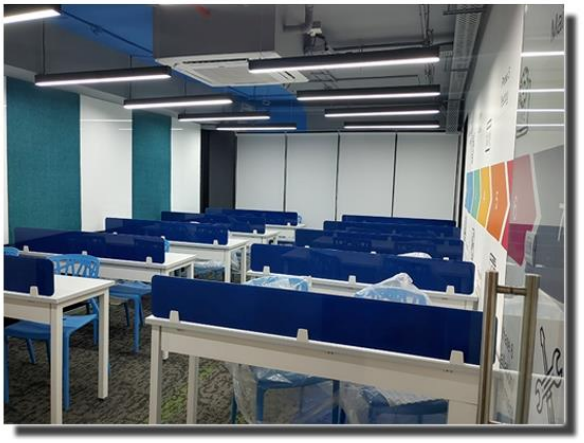

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