

A.	Data Structure
Day No	
Day 1	<ul style="list-style-type: none"> - Introduction to data structures - Data Structures: List as abstract data type - Introduction to linked list - Arrays vs Linked Lists - Linked List - Implementation in C/C++ - Linked List in C/C++ - Inserting a node at beginning - Linked List in C/C++ - Insert a node at nth position - Linked List in C/C++ - Delete a node at nth position
Day 2	<ul style="list-style-type: none"> -Reverse a linked list - Iterative method -Print elements of a linked list in forward and reverse order using recursion -Reverse a linked list using recursion -Introduction to Doubly Linked List -Doubly Linked List - Implementation in C/C++ -Introduction to stack -Array implementation of stacks -Linked List implementation of stacks -Reverse a string or linked list using stack.
Day 3	<ul style="list-style-type: none"> - Check for balanced parentheses using stack - Infix, Prefix and Postfix - Evaluation of Prefix and Postfix expressions using stack - Infix to Postfix using stack - Introduction to Queues - Array Implementation of Queue - linked list Implementation of Queue - Introduction to Trees
Day 4	<ul style="list-style-type: none"> - Binary Tree - Binary Search Tree - Binary search tree - Implementation in C/C++ - BST implementation - memory allocation in stack and heap - Find min and max element in a binary search tree - Find height of a binary tree - Binary tree traversal - breadth-first and depth-first strategies - Binary tree: Level Order Traversal - Binary tree traversal: Preorder, Inorder, Postorder
Day 5	<ul style="list-style-type: none"> - Check if a binary tree is binary search tree or not - Delete a node from Binary Search Tree - Inorder Successor in a binary search tree - Introduction to graphs - Properties of Graphs - Graph Representation part 01 - Edge List - Graph Representation part 02 - Adjacency Matrix - Graph Representation part 03 - Adjacency List

Assignment	Chapter List	Video Link	Dates	Book reference
https://scaledge-my.sharepoint.com/:b:/g/personal/deval_scaledge_io/ER2je8XV-rVCrX0vwyDIYQoBq1htJ-xQplkoN3p3kwBleA?e=92UTGW	Capter -1 to Chapter-8	https://www.youtube.com/watch?v=B31Lgl4Y4DQ&ab_channel=freeCodeCamp.org	start date: 10Mar 2023, End date: 16Mar 2023	https://scaledge-my.sharepoint.com/:w:/g/personal/deval_scaledge_io/EccdRnmX3l1Gi2NaYrofcGIBqD74fTq2_U2ta11Wh-VCgw?e=34bqTZ
	Chapter-9 to Chapter-17			
https://scaledge-my.sharepoint.com/:w:/g/personal/deval_scaledge_io/EUZfUneY_Z9Pjl6aoxsLSUUBnVOJQAmOMz3mWRamjGfmvA?e=OTCTIW	Chapter-18 to Chapter-25			
https://scaledge-my.sharepoint.com/:w:/g/personal/deval_scaledge_io/EccdRnmX3l1Gi2NaYrofcGIBqD74fTq2_U2ta11Wh-VCgw?e=34bqTZ	Chapter-26 to Chapter-34			
	Chapter-35 to Chapter-42			