

# CHECKLIST

## CHAPTER - 9 DATA STRUCTURES- I: LINEAR LISTS

### ELEMENTARY DATA REPRESENTATION

- Data Type vs Data Structure
- Simple Data Structures
- Compound Data Structures

### DIFFERENT DATA STRUCTURES

- Linear List Arrays
- Stacks
- Queues
- Linked Lists
- Trees

### OPERATIONS ON DATA STRUCTURE

- Insertion
- Deletion
- Searching
- Traversal
- Sorting
- Merging

### LINEAR LIST DATA STRUCTURES

- Searching in Linear List - Linear and Binary Search
- Insertion, Traversal, Sorting of a Linear List
- Deletion of an element from a Sorted Linear List
- List Comprehensions and its advantages

### NESTED/TWO DIMENSIONAL LISTS IN PYTHON

- Creating a 2D List
- Traversing a 2D List
- Accessing/Changing Individual Elements
- How a Two-Dimensional List is Stored
- Slices of Two-Dimensional Lists

