**Data structure:** In computer science, a data structure is a data organization, management, and storage format that enables efficient access and modification. More precisely, a data structure is a collection of data values, the relationships among them, and the functions or operations that can be applied to the data.

Examples: Linked Lists, Stacks, Queues, Hash Tables, Trees, Heaps, Graphs

**Array:** An array is a systematic arrangement of similar objects, usually in rows and columns.

**Linked Lists:** A linked-list is a sequence of data structures which are connected together via links. Linked List is a sequence of links which contains items. Each link contains a connection to another link.

**Stacks:** Stack is a linear data structure which follows a particular order in which the operations are performed. The order may be LIFO (Last In First Out) or FILO (First In Last Out).

**Queue:**The queue is a linear data structure used to represent a linear list. It allows insertion of an element to be done at one end and deletion of an element to be performed at the other end.

**Hash Tables:** A hash table is a data structure that is used to store key-value pairs. Just like anything in life, when something seems so simple, there is probably a lot of discipline and hard work behind it.

**Tree:** A tree is a hierarchical data structure defined as a collection of nodes. Nodes represent value and nodes are connected by edges. A tree has the following properties: The tree has one node called root.

**Heap:** Heap is a special case of balanced binary tree data structure where the root-node key is compared with its children and arranged accordingly. If α has child node β then − key(α) ≥ key(β) As the value of parent is greater than that of child, this property generates Max Heap.

**Graph:** A Graph is a non-linear data structure consisting of nodes and edges. The nodes are sometimes also referred to as vertices and the edges are lines or arcs that connect any two nodes in the graph. More formally a Graph can be defined as, A Graph consists of a finite set of vertices(or nodes) and set of Edges which connect a pair of nodes.