**Day 2 : 9 February 2025**

**1,2,3, 1000**

**LinkedList :** LinkedList is a type of linear data structure which internally use node concept to store the data. Generally linked list internally use dynamic memory allocation. Linked list is good option if we want to do more insertion or deletion operation.

Linked list mainly divided into 3 types.

1. Single linked list
2. Double linked list
3. Circular linked list (single or double).

Value nref value nref value nref ---------------🡪null

100 200 300

Null null

Pref value nref pref value nref pref value nref

1 2 3

**Non linear data structure**

Non linear data structure is use to store the non sequence order.

Graph

Tree

Set

Map

**Graph :** it is a type of non linear data structure which consists of nodes (vertices) and edges (connection between nodes).

Edge can be unidirectional or bi-directional

Cities are nodes connecting more than one cities by road. Road can be one way to two ways.

Google map

Social media