**Day 4 :**

**23 June – 2024**

**Data Structure**

Remove Node from a list

Stack is also one of the type of linear data structure. Stack follows concept as FILO (First In Last Out).

Stack operation :

Push : it is use to add the elements or data.

Pop : it is use to remove the elements from stack ie top.

Peek : it is use to retrieve top element or data not remove.

isEmpty: stack is empty

full : stack overflow.

Dis1();

Dis2();

Dis3();

Dis4();

Tree : Tree Structure

Tree is one of the non linear data structure.

The structure in tree start with root node. Others nodes are branches. Each nodes connected with each others. The connection follow parent and child relationship.

Root node

Child node parent node child node

Leaf node leaf node

Node :

Root node

Parent node : which have another child node

Leaf node : no child node

Binary Tree : A Binary tree is a tree data structure in which each parent node including root node has at most two child node.

Binary search tree .

It is a type of binary tree. In this tree left side node value must be lesser than right side node values.