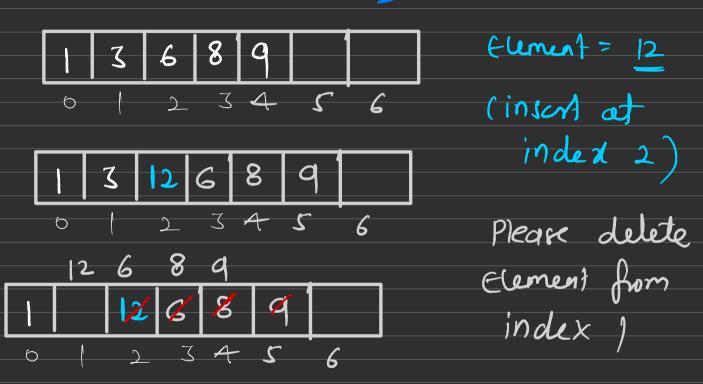
Doing the best at this moment, puts you in the best place for the next moment.



If we have Array, then Why Linked List





What is Linked List

End of List

3 20 6 30 7 40 9 NW Address 10 20 30 40

data Address

Collection of data, which is represented in term

```
data
Node
           Address: (Next Node)

(Null, if it is end)
```

Head Start Node 200 if head == null -1 list is Empty Not to change head pointer Head indicates start of list

Types of Linked List

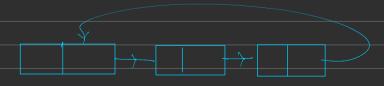
Singly Linked List



Doubly Linked List



Circular Linked List



Types of operation: Insertion * Traunsa Start end Position Peletion Start end Position

Structure of Linked List (SLL)

C++ class Node int data Node * next

data Address node (int)

```
Saua
```

```
crass Node

int data

Node next
```

int x How to create Node Memory Allocate (Runtime) Run Keyword New allocates memory Dynamic memory, from heap Node * node = new Node ()

Implementing SLL

```
class Node
                    Node * node = new Node (10)
     Hode & next
     Node (int d)

3 data = d
         next = nell
```