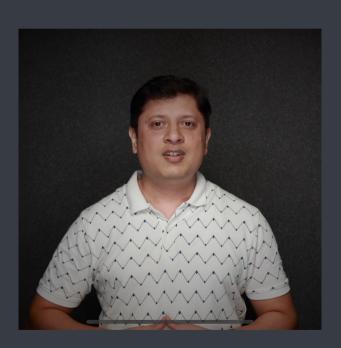
#### DSA through C++

#### Singly linked list



Saurabh Shukla (MySirG)

# Agenda

- Ptzil a list?
- 2 what is a node
- 3 Singly linked list
- (4) SLL ADT
- (5) Array vs Dynamic Array vs SLL

## What is a list?

List is a linear collection of data items also known as list I tem

Example 1

Marks of tests ) list of marks 20 15 21 24 18 23 25 ..... list item -> int

Example 2

List of guests

"Singh", "Chaturvedi", "Dubey", "Khan"....

list item -> string char [7

List Item -> class

Structure

Example 3 List of Students

Rahul Savita Dilip 17

XYZQX.com XYQX.com xQX.com

### Mhat in a node?

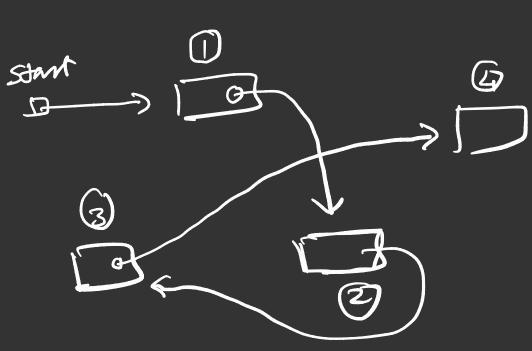
#### Example-1

Marks of texts ) List of marks
20 15 21 24 18 23 25 ....



struct node int item; node \*next;

3;



item next

# Singly Linked List

- 1) insertion
- 2) deletion

- 1) starting
- 1 Last
- 3 after a node
- O first node
- 1 last node
- 3 specific node

ptr item next

ptr -> item

SLLADT

Class SLL

3;

#### Array vs Dynamic Array vs SLL

H.W