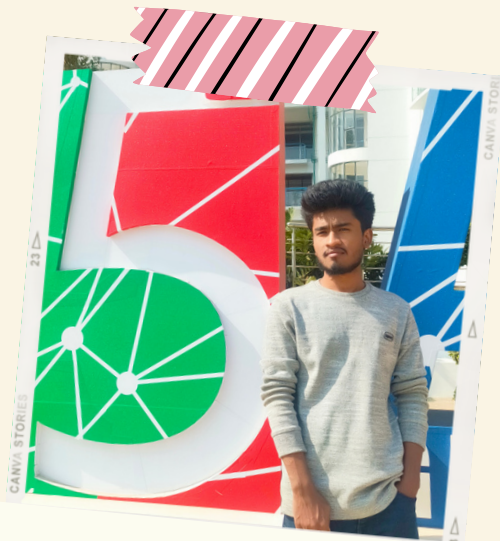


**MD. RUFSAN
JANI
SHANTO**
221-35-1064



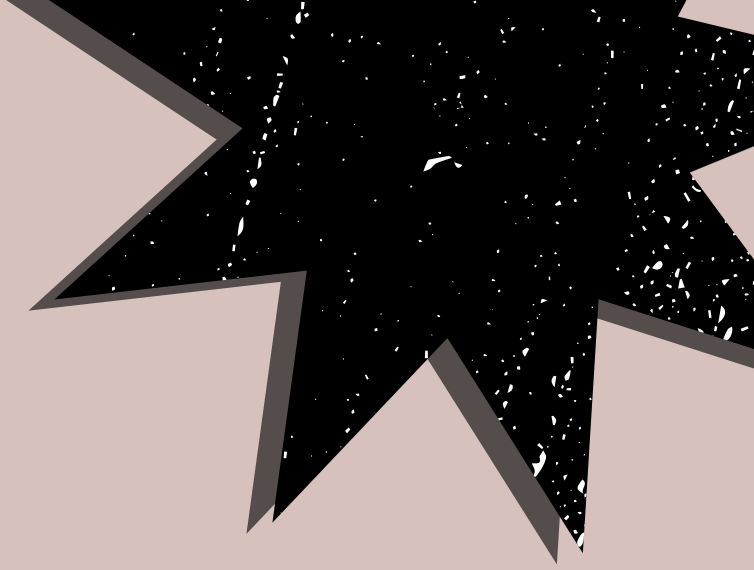
**TREEBANY
RANI SAHA**
221-35-1061



**PIJUS
CHANDRO
ROY**
221-35-1050



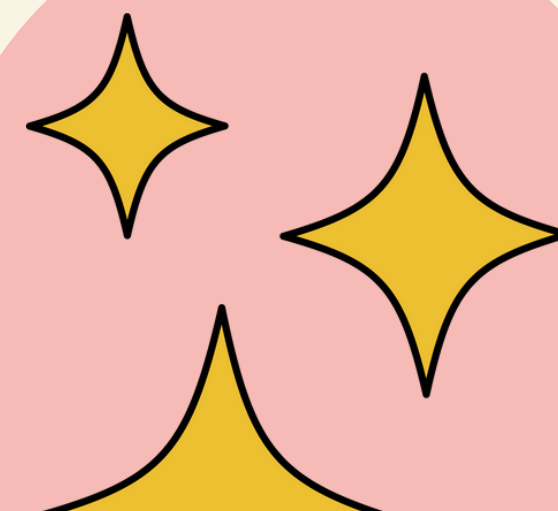
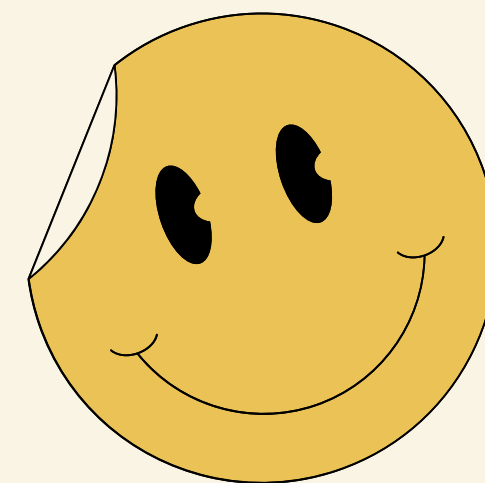
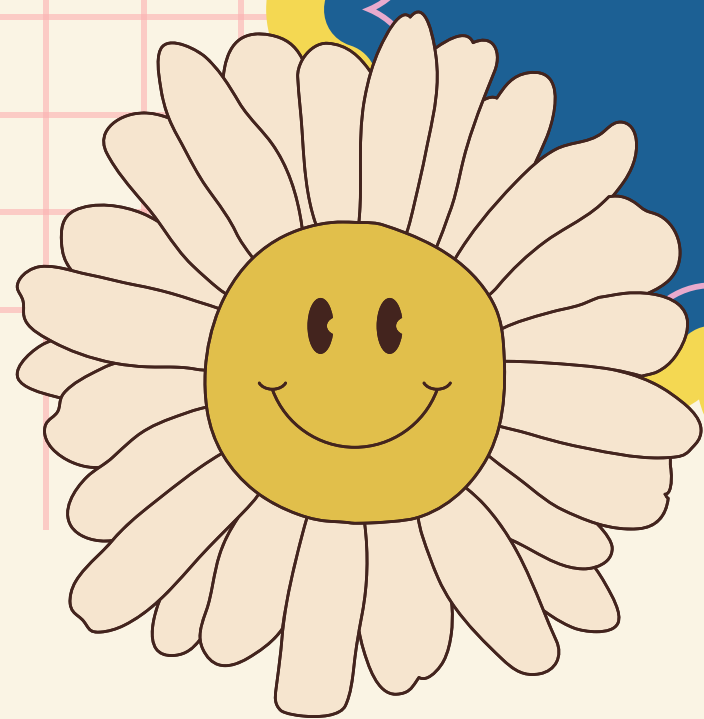
**MD MAHFUZ
RAHMAN
NIROB**
221-35-981



About Us



CIRCULAR LINKED LIST

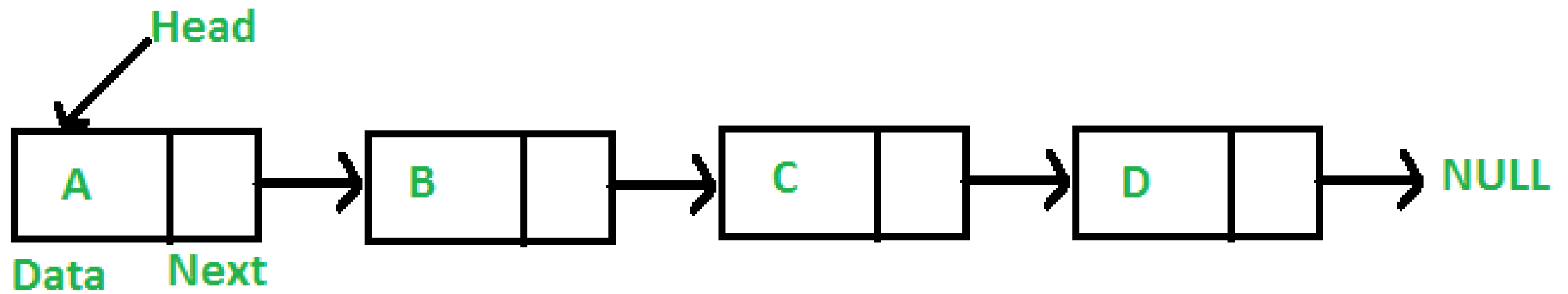


- **Parts of linked list**
- **Circular linked list**
- **Operations of circular linked list**

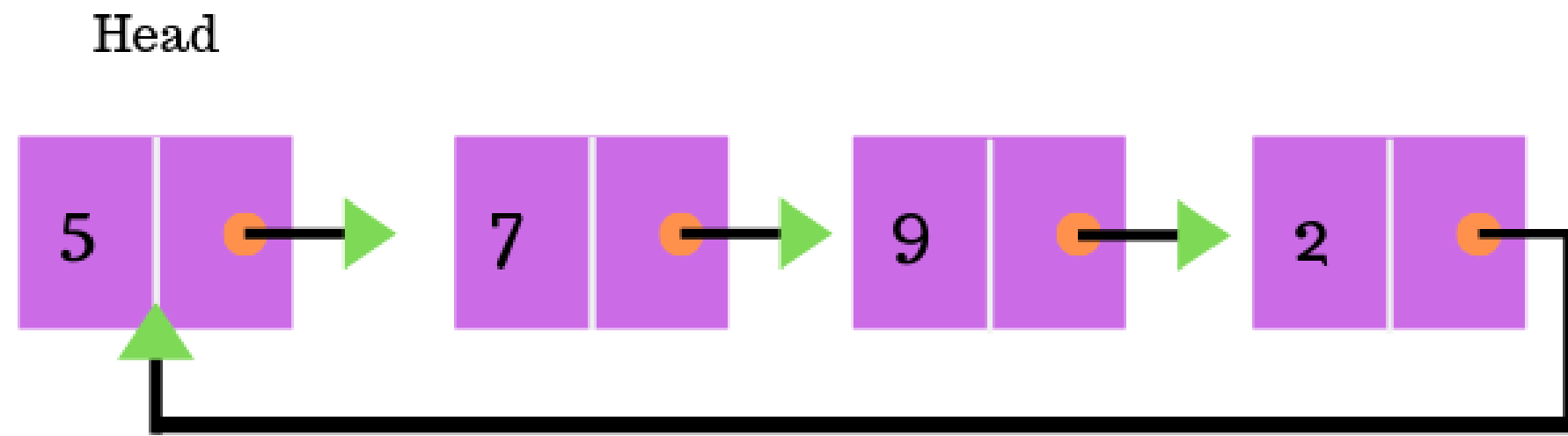


AGENDA

PARTS OF A LINKED LIST



What is a Circular linked list

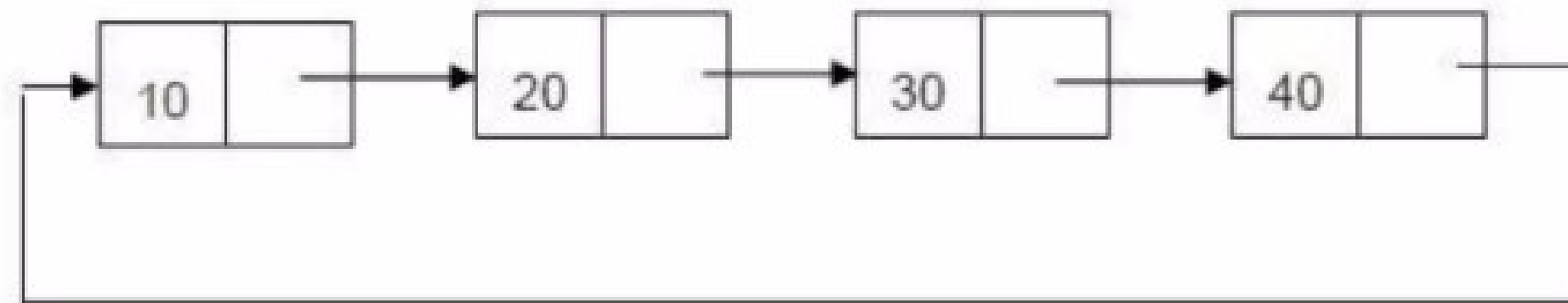


Circular Linked List

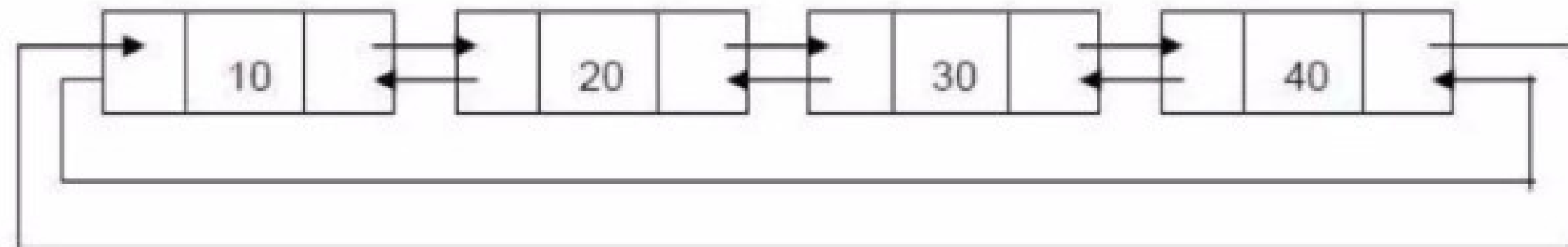
Circular linked list is a linked list where all nodes are connected to form a circle.

Types of circular linked list:

1. **Singly:** The last node points to the first node and there is only link between the nodes of linked list.


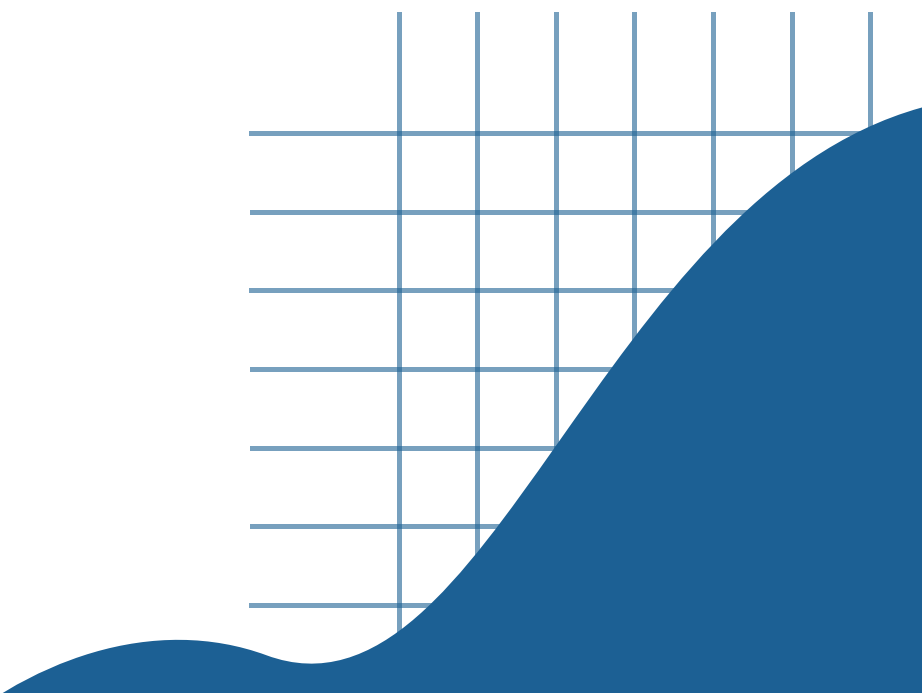


2. **Doubly:** The last node points to the first node and there are two links between the nodes of linked list.

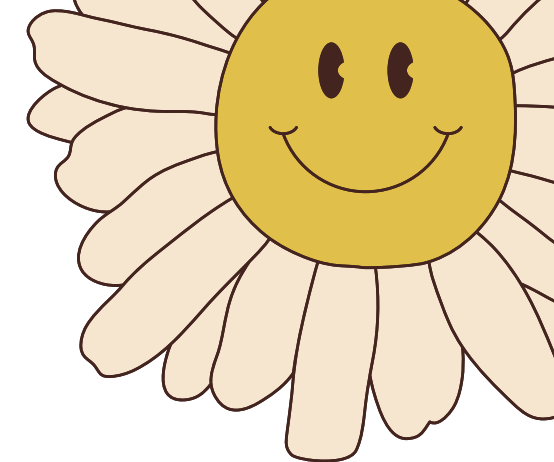
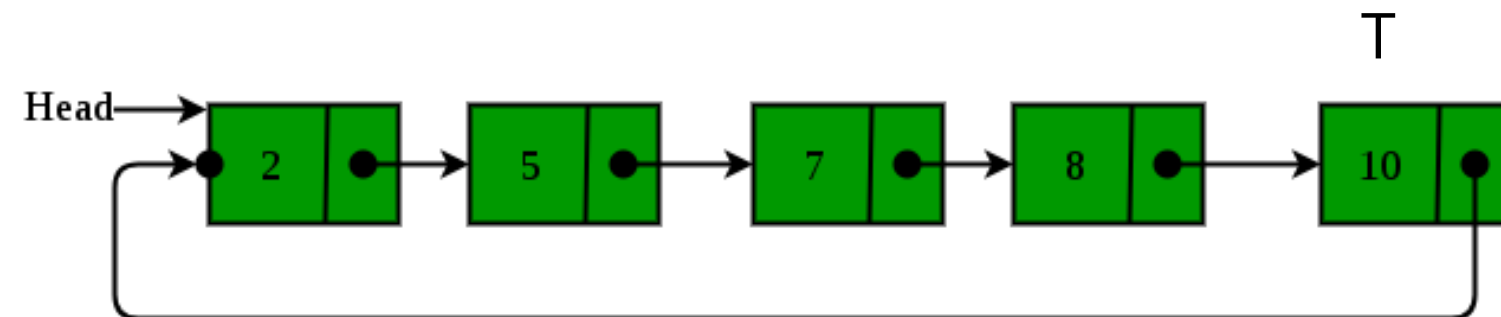
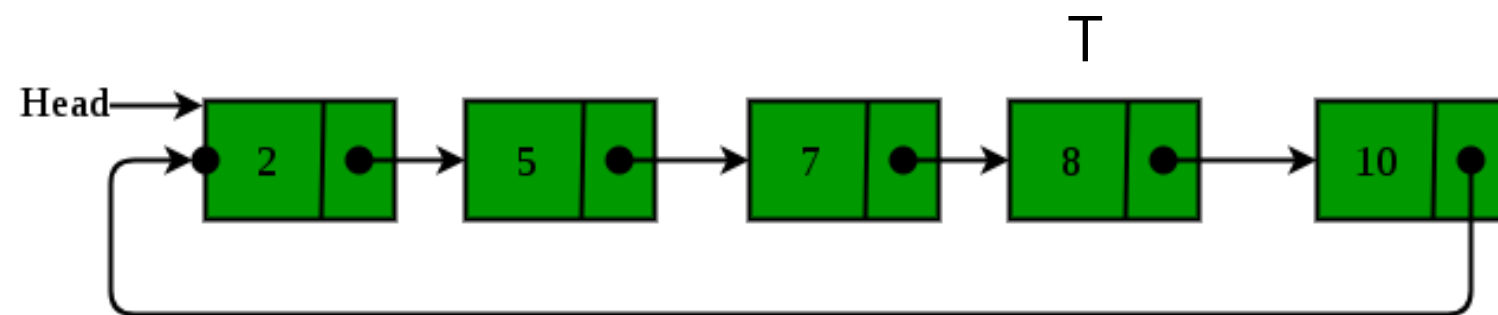
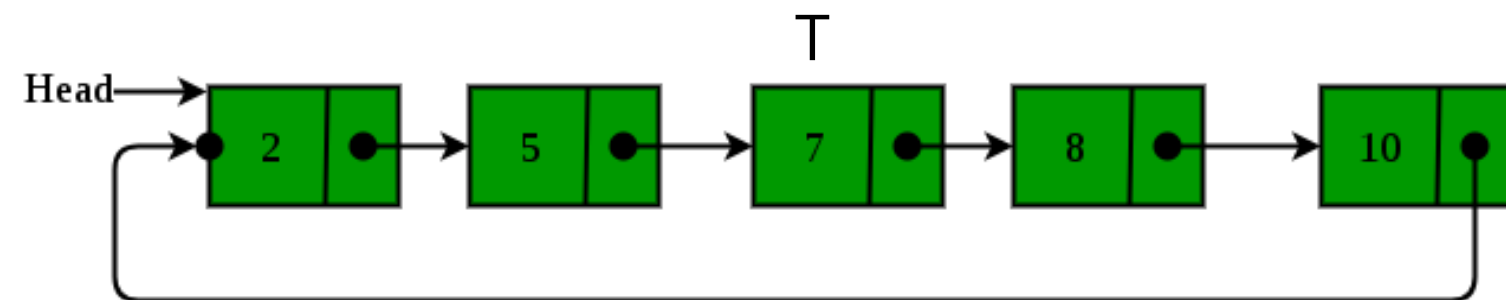
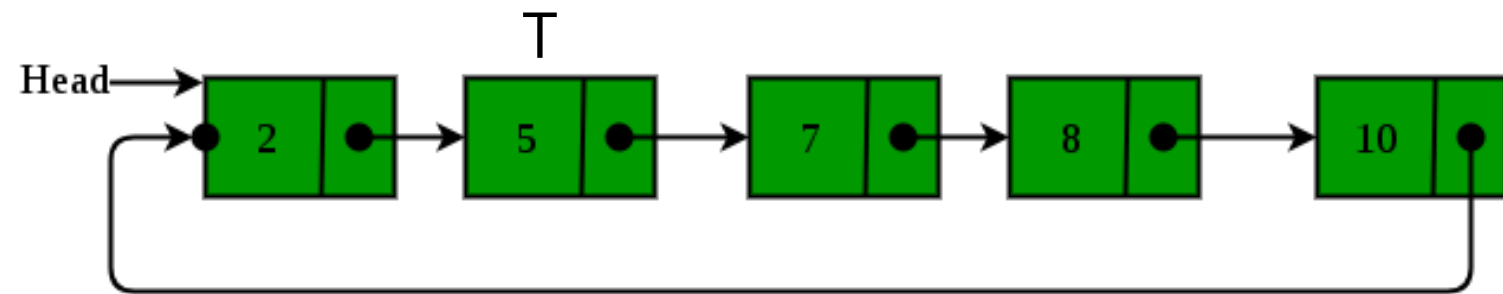
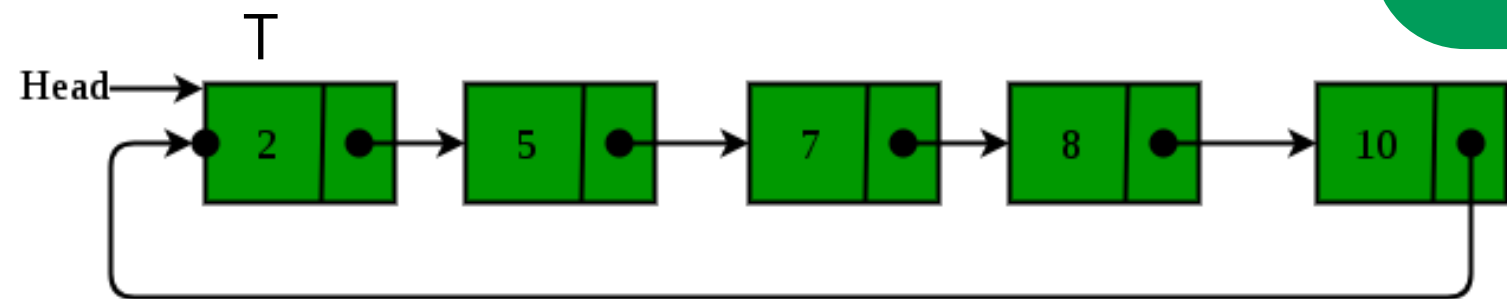


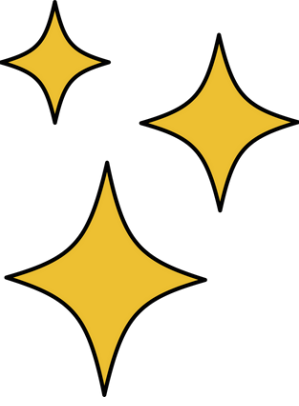


OPERATIONS OF CIRCULAR LINKED LIST

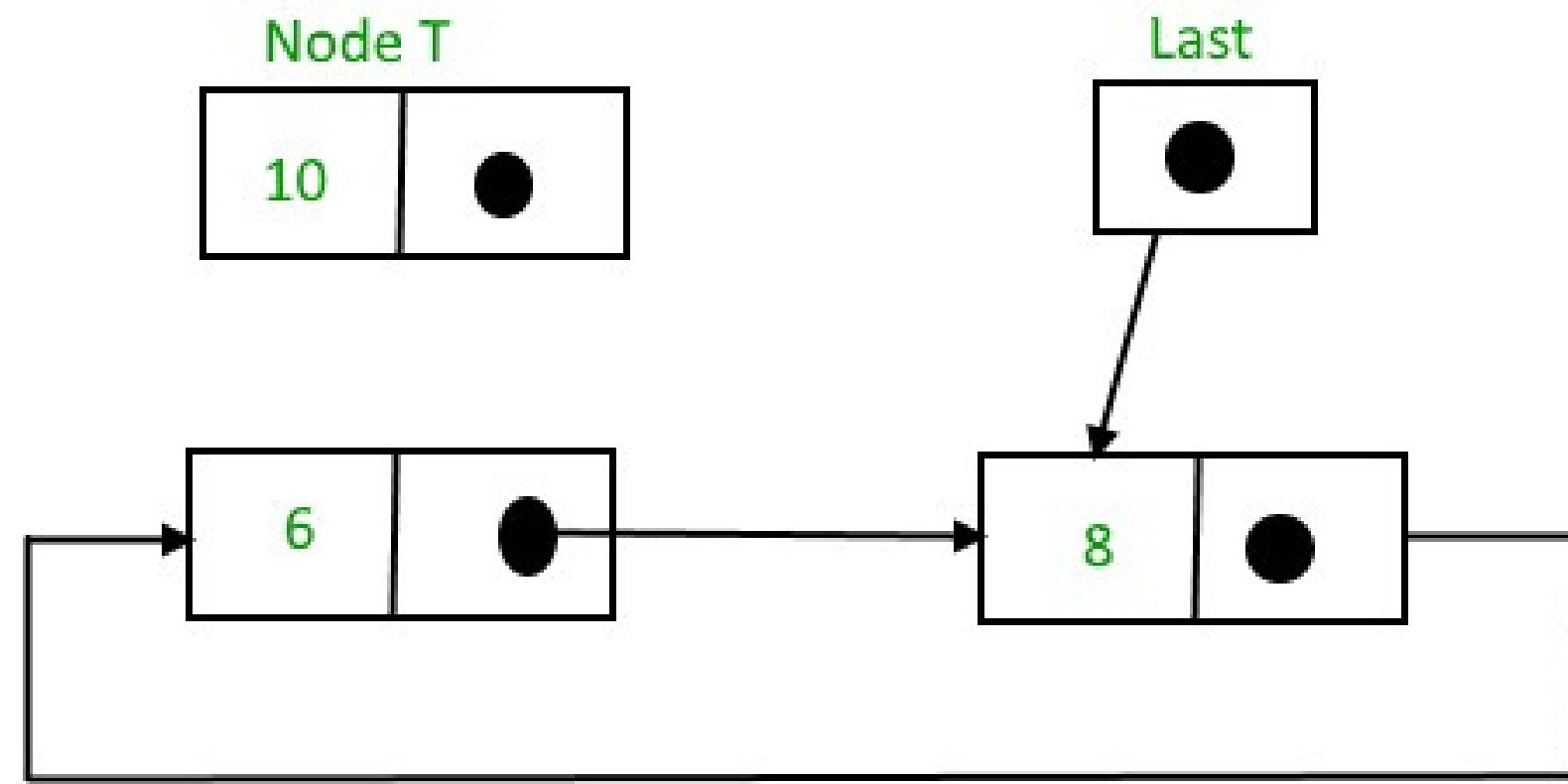
- **Traversal**
 - **Insertion**
 - **Deletion**
- 
- 

Traversal

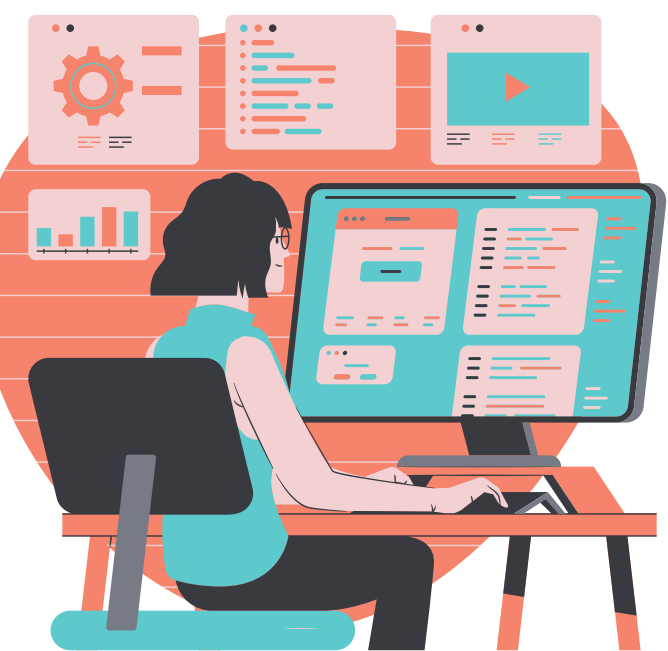
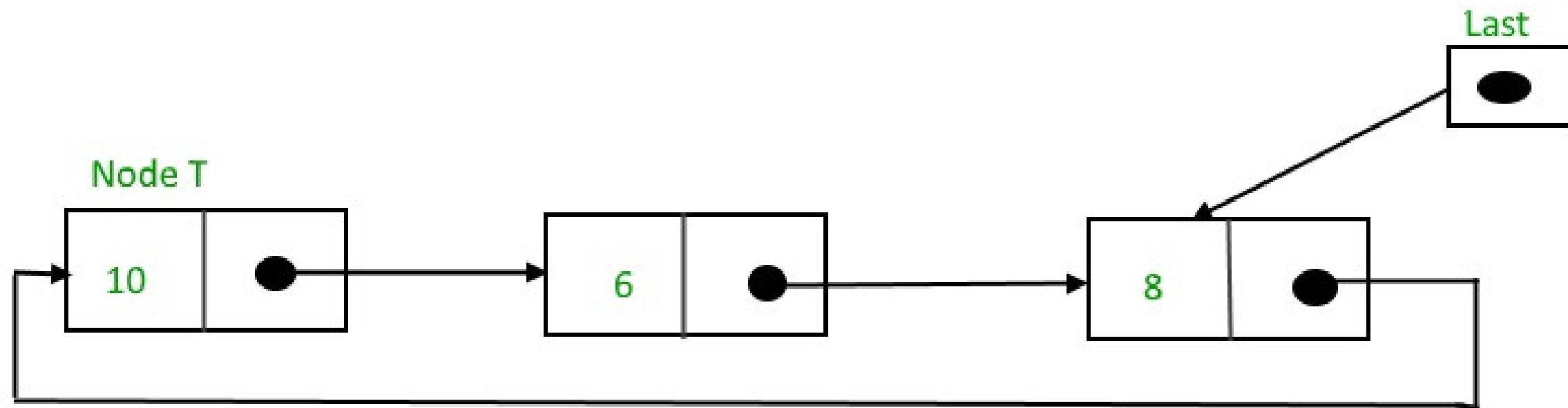




INSERTION

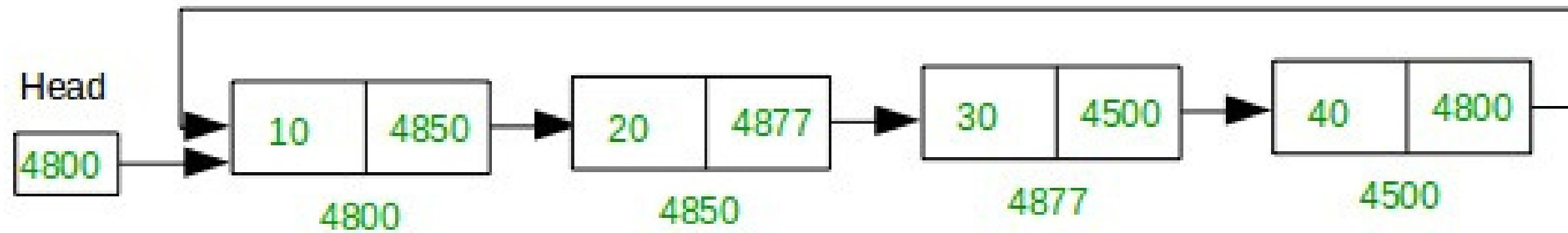


After Insertion

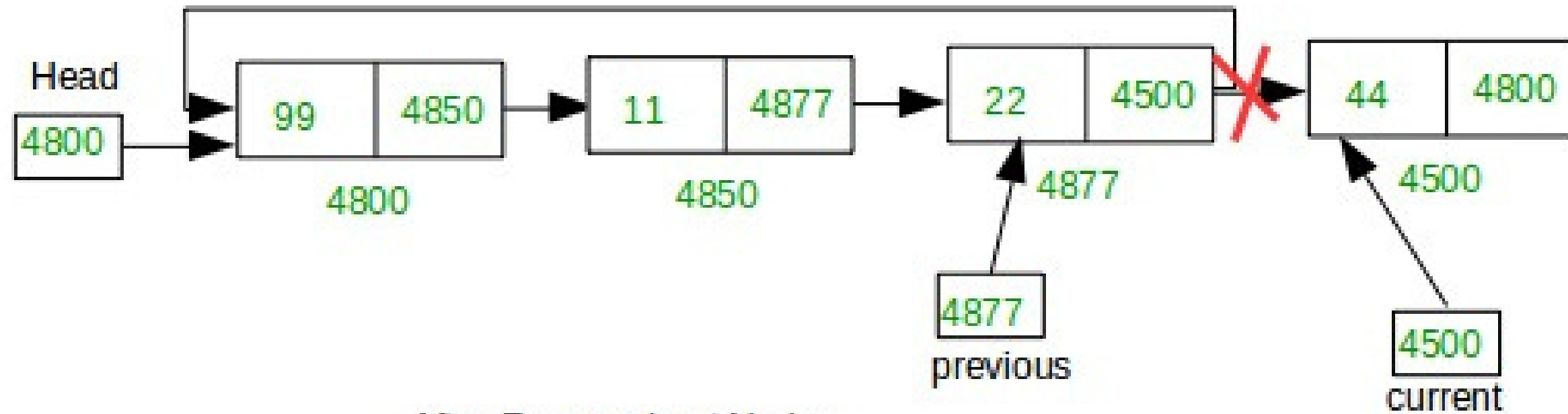


Deletion

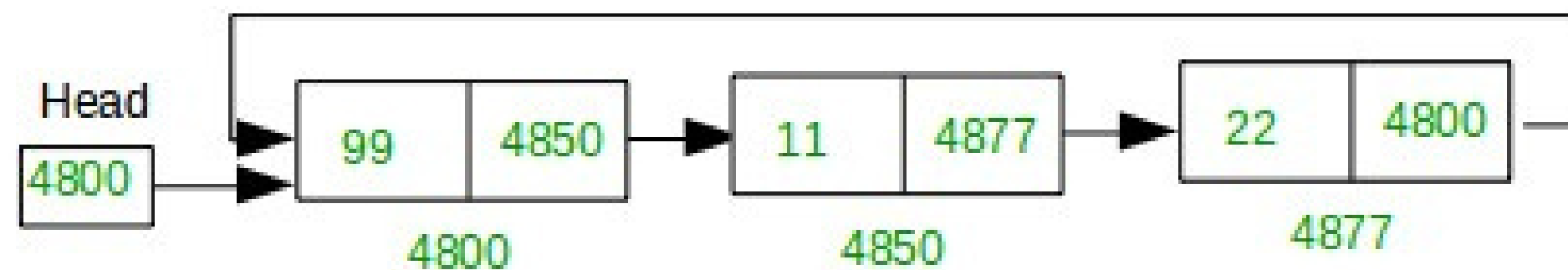
Initial List



Remove Last Node



After Remove Last Node

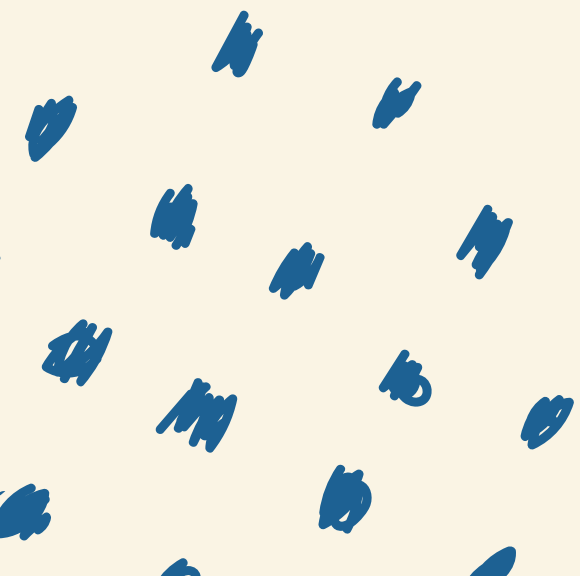
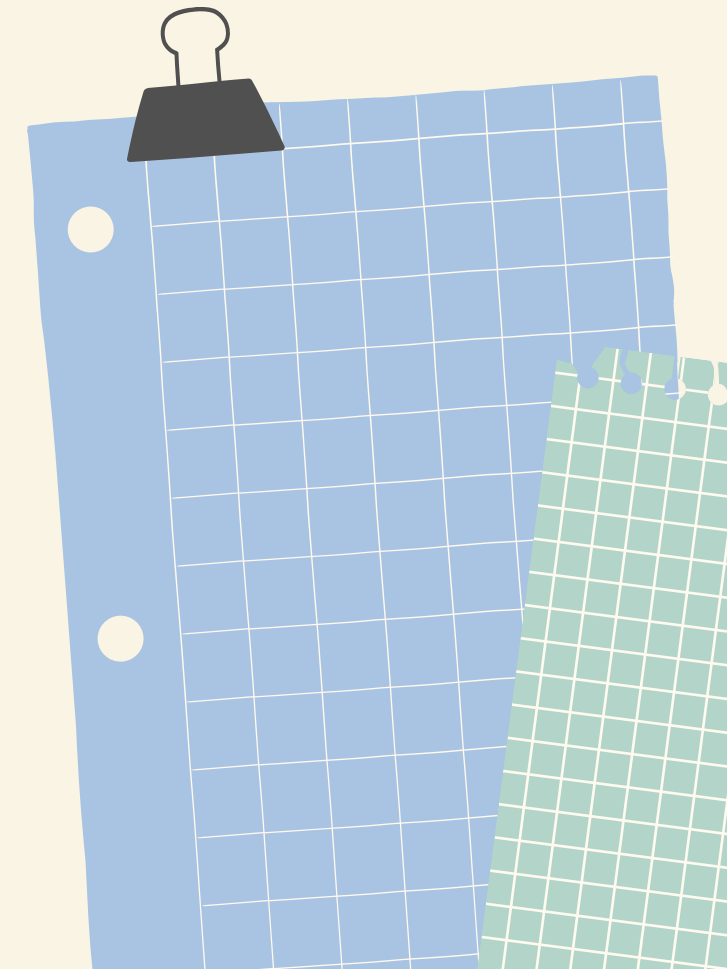




ADVANTAGE OF CIRCULAR LINKED LIST

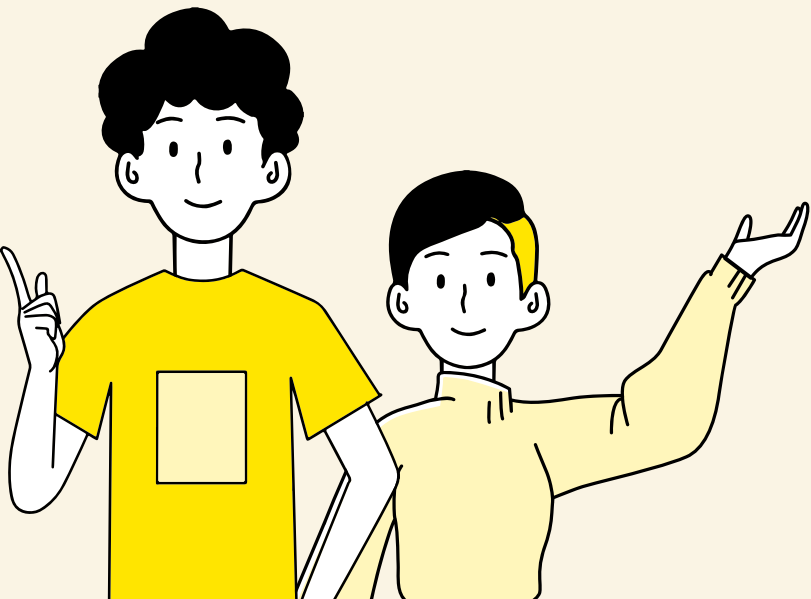


- Entire list can be traversed from any node of the list.
- It saves time when we have to go to the first node from the last node.
- Its is used for the implementation of queue.
- Reference to previous node can easily be found.
- When we want a list to be accessed in a circle or loop then circular linked list are used.



Disadvantage of circular linked list

- **If not handled proper validation then code may go in an infinite loop.**
- **Not easy to reverse a circular linked list.**
- **For the implementation perspective to insert at the beginning we have to traverse the complete list to find the last node.**
- **Harder to find the end of the list and loop control.**





THANK YOU