🡪Easy 🡪Medium 🡪Hard

**Practical 5** (Topic:1-way Linked-list)

**Class-work:**

* Write a program to create menu-driven program forsearching, insertion & deletion of an element and printing of linked-list.

**Home-work:**

1. Write a program to create 1-way linked-list and count & display no. of nodes in list.
2. Write a program to create 1-way linked-list of n nodes and delete an element which comes before an element specified by user.
3. Write a program to insert a new node after an element specified by user.
4. Write a program to delete every alternative node in 1-way linked list.
5. Write a program to find the middle node present in 1-way linked-list (if no. of nodes n in list is odd, then middle node will be (n+1)/2, otherwise n/2).
6. Write a program to make last node as first node in 1-way linked list.
7. Write a program to display on 2nd half of 1-way linked-list.
8. Write a program to separate even nodes from odd nodes and odd nodes must come after even nodes(in place).

Input: 17->15->8->9->2->4->6 Output: 8->2->4->6->17->15->9

1. Given a linked list and 2 integers M and N. Keep M nodes and delete N nodes repetitively till the end of linked list.( if m=3 and n=2, then keep first m(3) nodes and delete next n(2) nodes, again keep next 3 and delete next 2 till the end of linked list )
2. Given a singly linked list and a number K. Swap the Kthnode from the beginning with Kthnode from the end.