LAB 8
Linked List

Note: Complete the following programs from the given links and then past your programs in Doc file and upload on Google Classroom.

1. WAP to insert at the end of the linked list.
   https://www.hackerrank.com/challenges/insert-a-node-at-the-tail-of-a-linked-list/problem
2. WAP to print the elements of a linked list.
   https://www.hackerrank.com/challenges/print-the-elements-of-a-linked-list/problem
3. WAP to insert at the beginning of the linked list.
   https://www.hackerrank.com/challenges/insert-a-node-at-the-head-of-a-linked-list/problem
4. WAP to insert a node at specify position in a linked list.
   https://www.hackerrank.com/challenges/insert-a-node-at-a-specific-position-in-a-linked-list/problem
5. WAP to delete a node from given position in a linked list.
   https://www.hackerrank.com/challenges/delete-a-node-from-a-linked-list/problem
6. WAP to print the elements in reverse order in a linked list.
   https://www.hackerrank.com/challenges/print-the-elements-of-a-linked-list-in-reverse/problem
7. WAP to insert a node into a sorted doubly linked list.
   https://www.hackerrank.com/challenges/insert-a-node-into-a-sorted-doubly-linked-list/problem
8. WAP to detect loop or cycle in a linked list.

https://www.hackerrank.com/challenges/detect-whether-a-linked-list-contains-a-cycle/problem

Complete following programs:

9. WAP to create the doubly linked list of n nodes.
10. Write a menu driven program for implementing doubly linked list.
    1. To insert new node at beginning,
    2. To insert new node after specified position
    3. To insert new node at the end
    4. To delete the node from beginning
    5. To delete after specified position
    6. To delete from the end
11. WAP to create circular linked list of n nodes.
12. WAP to count the number of nodes in circular linked list if only start pointer of circular linked list is given.