1. Write a program in C to create and display Singly Linked List. Go to the editor

Test Data :
Input the number of nodes: 3
Input data for node 1:5
Input data for node 2 : 6
Input data for node 3:7
Expected Output :
Data entered in the list :
Data = 5
Data = 6
Data = 7

2. Write a program in C to create a singly linked list of n nodes and display it in reverse order.

Test Data :
Input the number of nodes: 3
Input data for node 1:5
Input data for node 2 : 6
Input data for node 3:7
Expected Output :
Data entered in the list are :
Data = 5
Data = 6
Data = 7
The list in reverse are :
Data = 7
Data = 6
Data = 5

Test Data and Expected Output:

3. Write a program in C to insert a new node at the beginning of a Singly Linked List.

Input the number of nodes: 3
Input data for node 1: 5
Input data for node 2: 6
Input data for node 3: 7

Data entered in the list are:
Data = 5
Data = 6
Data = 7

Input data to insert at the beginning of the list: 4

Data after inserted in the list are:
Data = 4
Data = 5
Data = 6
Data = 7

4. Write a program in C to insert a new node at the middle of Singly Linked List.

Test Data and Expected Output:

Input the number of nodes (3 or more): 4

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Input data for node 1:1
Input data for node 2:2
Input data for node 3:3
Input data for node 4:4
Data entered in the list are:
Data = 1
Data = 2
Data = 3
Data = 4
Input data to insert in the middle of the list: 5
Input the position to insert new node: 3
Insertion completed successfully.
The new list are:
Data = 1
Data = 2
Data = 5
Data = 3
Data = 4
    5. Write a program in C to delete first node of Singly Linked List.
Test Data :
Input the number of nodes: 3
Input data for node 1:2
Input data for node 2:3
Input data for node 3:4
Expected Output:
Data entered in the list are:
Data = 2
Data = 3
Data = 4
Data of node 1 which is being deleted is: 2
Data, after deletion of first node :
Data = 3
Data = 4
    6. Write a program in C to delete a node from the middle of Singly Linked
         List.
Test Data and Expected Output:
Input the number of nodes: 3
Input data for node 1:2
Input data for node 2:5
Input data for node 3:8
Data entered in the list are:
Data = 2
Data = 5
Data = 8
Input the position of node to delete: 2
Deletion completed successfully.
The new list are:
Data = 2
Data = 8
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7. Write a program in C to search an existing element in a singly linked list.

Test Data and Expected Output :

Input the number of nodes: 3

Input data for node 1 : 2 Input data for node 2 : 5 Input data for node 3 : 8

Data entered in the list are :

Data = 2 Data = 5 Data = 8

Input the element to be searched : 5 Element found at node 2