

— Singly Linked List Operations —

1. Create Linked List
2. Insert at Beginning
3. Insert at Any Position
4. Insert at End
5. Display List
6. Exit

Enter your choice: 1

Enter number of nodes: 3

Enter data for node 1: 4

Enter data for node 2: 7

Enter data for node 3: 2

Linked list created successfully.

— Singly Linked List Operations —

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Enter your choice: 2

Enter data to insert: 7

Node inserted at the beginning.

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Enter your choice: 5

Linked List: 7 -> 4 -> 7 -> 2 -> NULL

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Enter your choice: 3

Enter data and position: 7 2

Node inserted at position 2.

— Singly Linked List Operations —

1. Create Linked List

6. Exit

Enter your choice: 5

Linked List: 7 -> 4 -> 7 -> 2 -> NULL

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Enter your choice: 3

Enter data and position: 7 2

Node inserted at position 2.

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Enter your choice: 4

Enter data to insert: 9

Node inserted at the end.

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Enter your choice: 5

Linked List: 7 -> 7 -> 4 -> 7 -> 2 -> 9 -> NULL

— Singly Linked List Operations —

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Enter your choice: 6

Exiting...

Process returned 0 (0x0) execution time : 40.496 s

Press any key to continue.

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1. temp \rightarrow next
= newNode

30 \rightarrow 35

35 \rightarrow 40

10 \rightarrow 20 \rightarrow 30

35 \rightarrow 40 \rightarrow 50

Insert 55 at end of list

Step	Action	Temp Node	New Node	Pointer	List
1.	Traverse to end	Temp = node (30)	-	-	10 \rightarrow 20 \rightarrow 30 \rightarrow 40 \rightarrow 50
2.	Create new node	-	55 (next = NULL)	-	10 \rightarrow 20 \rightarrow 30 \rightarrow 40 \rightarrow 50
3.	Set temp \rightarrow next = newNode	30 \rightarrow 55	55 \rightarrow NULL	✓	10 \rightarrow 20 \rightarrow 30 \rightarrow 40 \rightarrow 50 \rightarrow 55

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17/11/18
Seen

if (temp == NULL)

head = temp

temp = temp->next

if (head == NULL)

printf("Node created successfully")

return head

if (temp == NULL)

return head

