# Name - Sanjoy Saha

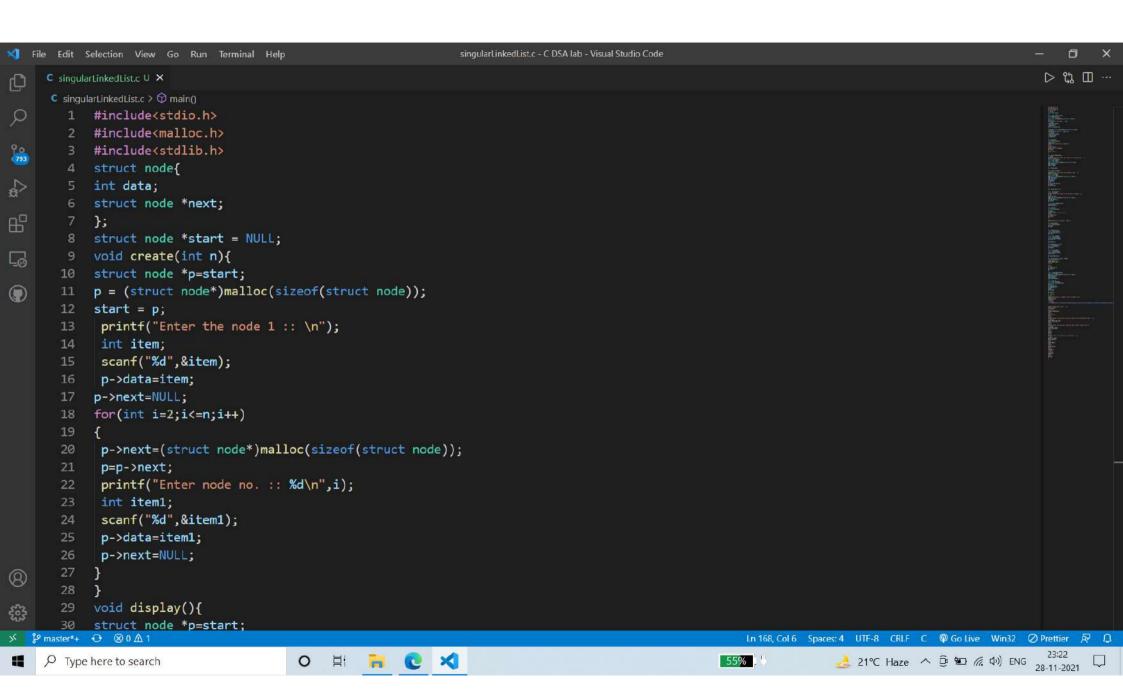
Stream - Computer Science & Engineering

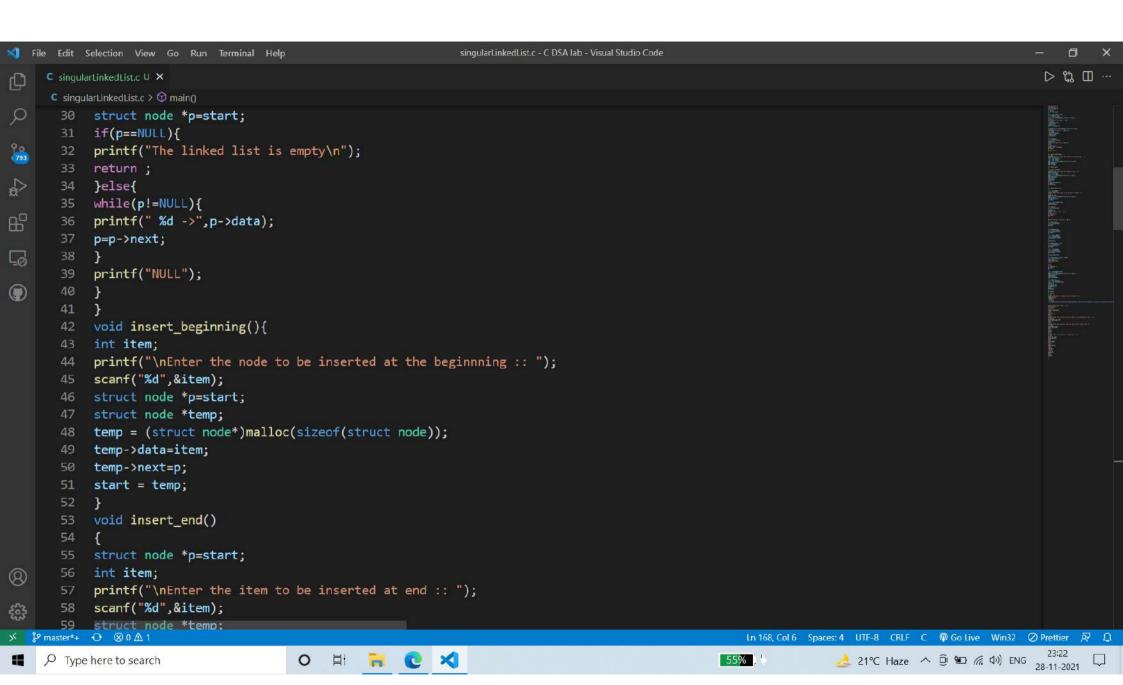
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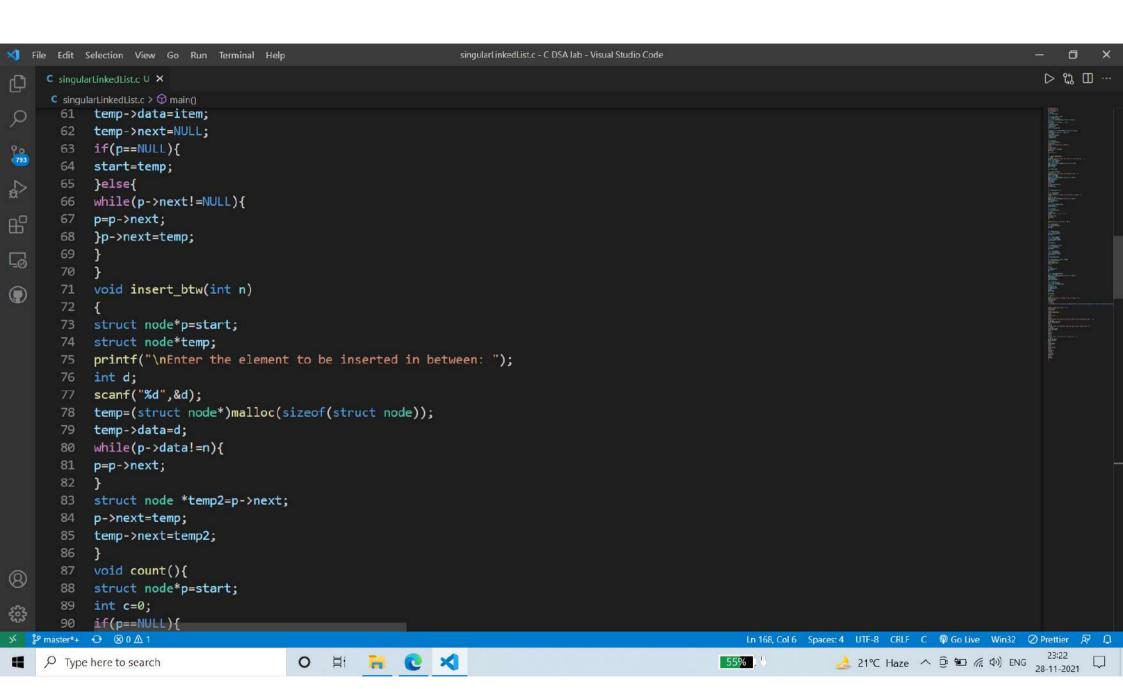
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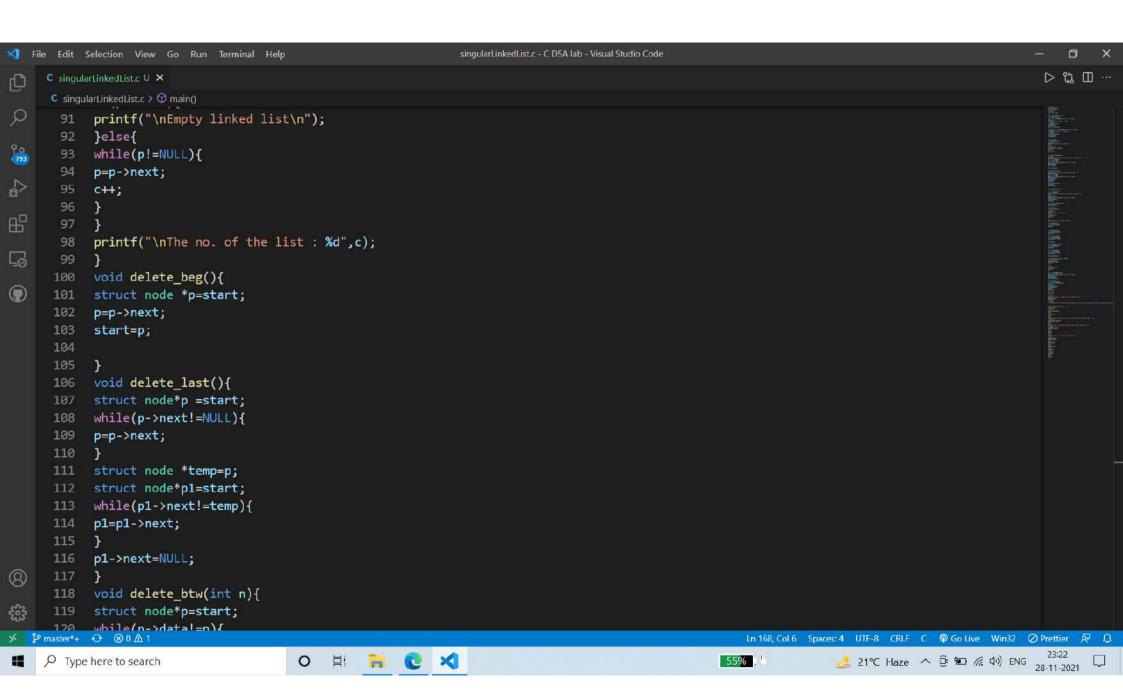
University :- 10900120003 Roll no.

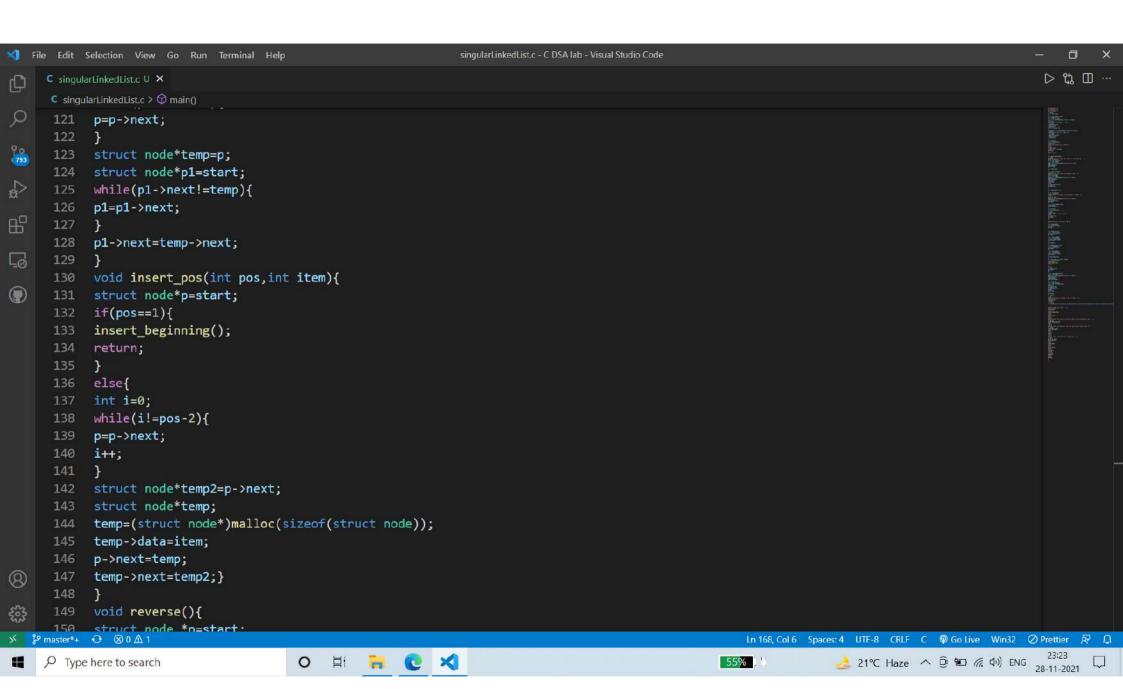
Subject - DSA Lab

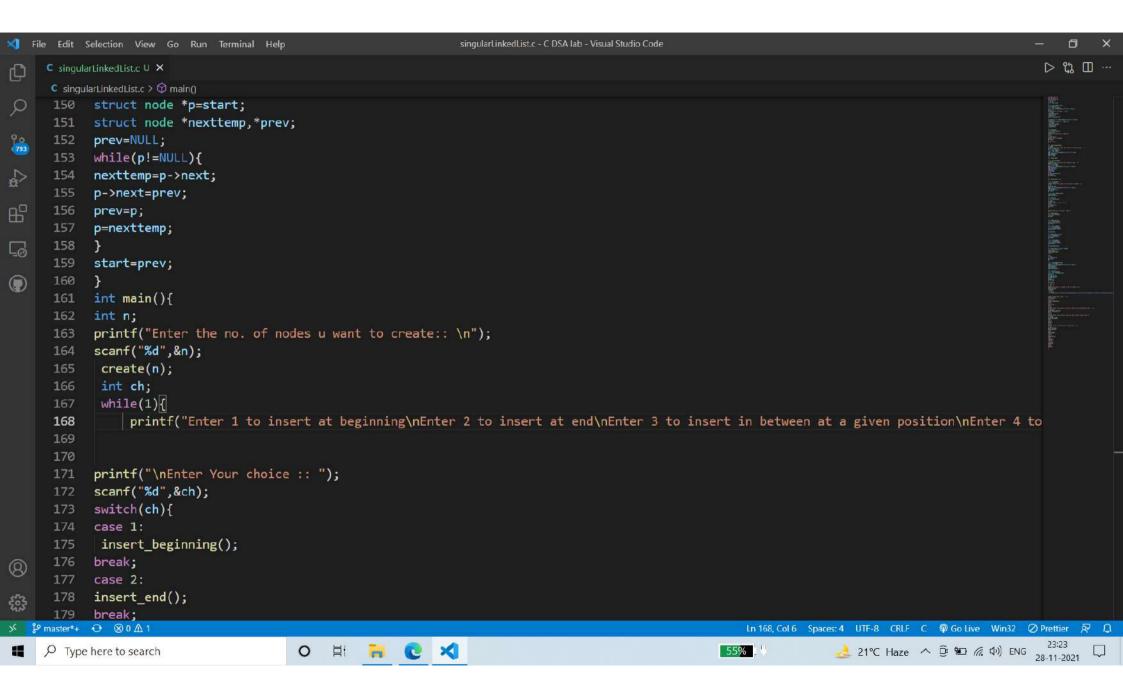


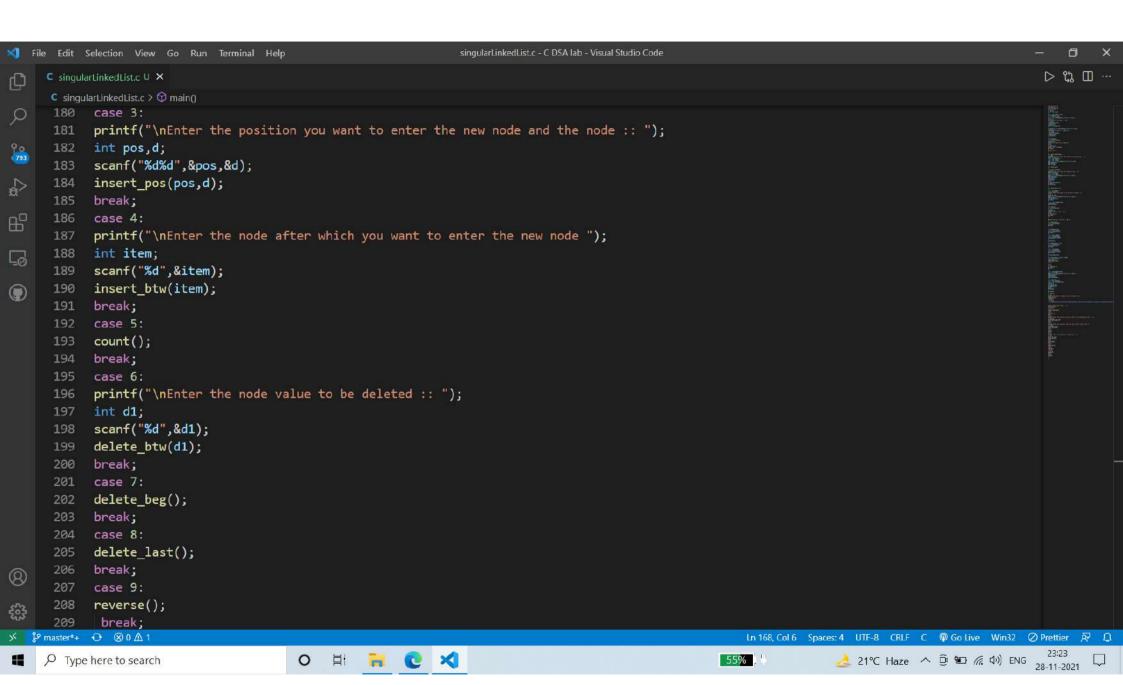


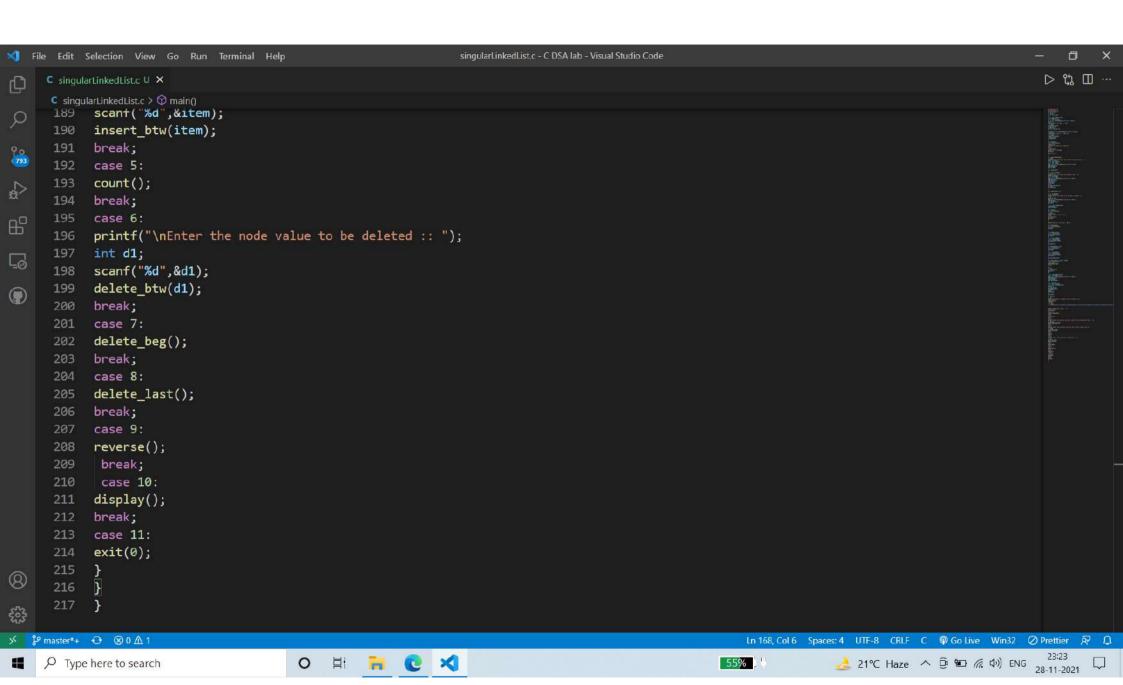












```
PROBLEMS 1
              OUTPUT
                        TERMINAL
                                  DEBUG CONSOLE
Enter 10 to display the list
Enter 11 to exit
Enter Your choice :: 10
434 -> 121 -> 33 -> 3 -> 4 -> 2 ->NULLEnter 1 to insert at beginning
Enter 2 to insert at end
Enter 3 to insert in between at a given position
Enter 4 to insert in between after a given node
Enter 5 to count the number of the list
Enter 6 to delete a node with a given value
Enter 7 to delete first node
Enter 8 to delete last node
Enter 9 to reverse the list
Enter 10 to display the list
Enter 11 to exit
Enter Your choice :: 9
Enter 1 to insert at beginning
Enter 2 to insert at end
Enter 3 to insert in between at a given position
```

Enter 11 to exit

Enter 4 to insert in between after a given node Enter 5 to count the number of the list Enter 6 to delete a node with a given value Enter 7 to delete first node Enter 8 to delete last node Enter 9 to reverse the list Enter 10 to display the list Enter 11 to exit Enter Your choice :: 10 2 -> 4 -> 3 -> 33 -> 121 -> 434 ->NULLEnter 1 to insert at beginning Enter 2 to insert at end Enter 3 to insert in between at a given position Enter 4 to insert in between after a given node Enter 5 to count the number of the list Enter 6 to delete a node with a given value Enter 7 to delete first node Enter 8 to delete last node Enter 9 to reverse the list Enter 10 to display the list

DEBUG CONSOLE

```
Enter Your choice :: 8
```

Enter 1 to insert at beginning

Enter 2 to insert at end

Enter 3 to insert in between at a given position

Enter 4 to insert in between after a given node

Enter 5 to count the number of the list

Enter 6 to delete a node with a given value

Enter 7 to delete first node

Enter 8 to delete last node

Enter 9 to reverse the list

Enter 10 to display the list

Fnter 11 to exit

## Enter Your choice :: 10

2 -> 4 -> 3 -> 33 -> 121 ->NULLEnter 1 to insert at beginning

Enter 2 to insert at end

Enter 3 to insert in between at a given position

Enter 4 to insert in between after a given node

Enter 5 to count the number of the list

Enter 6 to delete a node with a given value

Enter 7 to delete first node

Enter 8 to delete last node

Enter 9 to reverse the list

Enter 10 to display the list

Enter 11 to exit

# Enter Your choice :: 7

Enter 1 to insert at beginning

Enter 2 to insert at end

Enter 3 to insert in between at a given position

Enter 4 to insert in between after a given node

Enter 5 to count the number of the list

Enter 6 to delete a node with a given value

Enter 7 to delete first node

Enter 8 to delete last node

Enter 9 to reverse the list

Enter 10 to display the list

Enter 11 to exit

### Enter 11 to exit

Enter Your choice :: 7 Enter 1 to insert at beginning Enter 2 to insert at end Enter 3 to insert in between at a given position Enter 4 to insert in between after a given node Enter 5 to count the number of the list Enter 6 to delete a node with a given value Enter 7 to delete first node Enter 8 to delete last node Enter 9 to reverse the list Enter 10 to display the list Enter 11 to exit Enter Your choice :: 10

4 -> 3 -> 33 -> 121 ->NULLEnter 1 to insert at beginning

Enter 2 to insert at end

Enter 3 to insert in between at a given position

Enter 4 to insert in between after a given node

Enter 5 to count the number of the list

Enter 6 to delete a node with a given value

Enter 7 to delete first node

Enter 8 to delete last node

Enter 9 to reverse the list

Enter 10 to display the list

Enter 11 to exit

# Enter Your choice :: 5

The no. of the list: 4Enter 1 to insert at beginning Enter 2 to insert at end Enter 3 to insert in between at a given position Enter 4 to insert in between after a given node Enter 5 to count the number of the list Enter 6 to delete a node with a given value Enter 7 to delete first node Enter 8 to delete last node Enter 9 to reverse the list

Enter 11 to exit

Enter 10 to display the list

```
PROBLEMS 1 OUTPUT TERMINAL DEBUG CONSOLE
Enter 10 to display the list
Enter 11 to exit
Enter Your choice :: 10
4 -> 3 -> 33 -> 121 ->NULLEnter 1 to insert at beginning
Enter 2 to insert at end
Enter 3 to insert in between at a given position
Enter 4 to insert in between after a given node
Enter 5 to count the number of the list
Enter 6 to delete a node with a given value
Enter 7 to delete first node
Enter 8 to delete last node
Enter 9 to reverse the list
Enter 10 to display the list
Enter 11 to exit
Enter Your choice :: 5
Enter 2 to insert at end
Enter 3 to insert in between at a given position
Enter 4 to insert in between after a given node
Enter 5 to count the number of the list
Enter 6 to delete a node with a given value
Enter 7 to delete first node
Enter 8 to delete last node
Enter 9 to reverse the list
```

The no. of the list: 4Enter 1 to insert at beginning Enter 10 to display the list Enter 11 to exit

Enter Your choice :: 10 4 -> 3 -> 33 -> 121 ->NULLEnter 1 to insert at beginning Enter 2 to insert at end Enter 3 to insert in between at a given position Enter 4 to insert in between after a given node Enter 5 to count the number of the list Enter 6 to delete a node with a given value Enter 7 to delete first node Enter 8 to delete last node Enter 9 to reverse the list Enter 10 to display the list Enter 11 to exit