**Minor Project**

**Function Description :-**

**void create() :** The function creates the Linked List as per the value given by the user.

**void display() :** The function displays the Linked List .

**int find2ndMax() :** The function finds and returns the 2nd Maximum element from the Linked List.

**void search(int n) :**The function is implemented to find the index/s of an element from the Linked List entered by the user.

**void removeDuplicate() :**The function removes the duplicate nodes from the Linked List and hence displays the new Linked List after removal.

**int countUnique() :** The function counts and returns the number of unique elements in the Linked List.

**PROCESSING & OUTPUT**

Input node value

67

Do you want to add more nodes (1/0)

1

Input node value

23

Do you want to add more nodes (1/0)

1

Input node value

23

Do you want to add more nodes (1/0)

1

Input node value

67

Do you want to add more nodes (1/0)

0

\*\*Menu\*\*

0. Exit

1. Display the LinkedList

2. Find the 2nd largest element in LinkedList

3. To display references of all occurances of an element

4. To remove all nodes with duplicate elements

5. Count the number of unique elements

Enter your choice

1

SHAIKH\_SHOHAIL\_PARWEJ\_2141016146.Node@448139f0

67 -> 23 -> 23 -> 67 -> null

\*\*Menu\*\*

0. Exit

1. Display the LinkedList

2. Find the 2nd largest element in LinkedList

3. To display references of all occurances of an element

4. To remove all nodes with duplicate elements

5. Count the number of unique elements

Enter your choice

2

The 2nd maximum element:23

\*\*Menu\*\*

0. Exit

1. Display the LinkedList

2. Find the 2nd largest element in LinkedList

3. To display references of all occurances of an element

4. To remove all nodes with duplicate elements

5. Count the number of unique elements

Enter your choice

3

Enter the element

23

The element 23is found at index=1

The element 23is found at index=2

Element not found

\*\*Menu\*\*

0. Exit

1. Display the LinkedList

2. Find the 2nd largest element in LinkedList

3. To display references of all occurances of an element

4. To remove all nodes with duplicate elements

5. Count the number of unique elements

Enter your choice

4

Linked List after duplicate removal

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67 -> 23 -> null

\*\*Menu\*\*

0. Exit

1. Display the LinkedList

2. Find the 2nd largest element in LinkedList

3. To display references of all occurances of an element

4. To remove all nodes with duplicate elements

5. Count the number of unique elements

Enter your choice

5

The no. of unique elements:2

\*\*Menu\*\*

0. Exit

1. Display the LinkedList

2. Find the 2nd largest element in LinkedList

3. To display references of all occurances of an element

4. To remove all nodes with duplicate elements

5. Count the number of unique elements

Enter your choice