DSA LINKED-LIST ASSIGNMENT

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OUTPUT :

```
zaid Desktop $ ./a.out
1. Enter the elements in the list
2. Search for an element in the list
3. Enter an element at the kth index of created list
4. Delete an element at the kth index of created list
5. To find the length of the string
6. Display list
7 Is list empty

 Enter your choice : 1
Enter the no of elements you want to enter into the LinkedList randomly (INSERTION IN PROCEEDINGS BELOW): 5
Enter the value to be added : 56
Enter the value to be added : 34
Enter the value to be added : 8
Enter the value to be added : 23
Enter the value to be added : 9

 Enter your choice : 2
Enter a value to search in the linked list: 34
Found at pos 2

 Enter your choice : 6
List is not empty !
| 56 | * ----> | 34 | * ----> | 8 | * ----> | 23 | * ----> | 9 | * ----> NULL

 Enter your choice : 3
Enter the index at which element is to be added:3
Enter the value to be added :100

List is not empty !
| 56 | * ----> | 34 | * ----> | 100 | * ----> | 8 | * ----> | 23 | * ----> | 9 | * ----> NULL

 Enter your choice : 4
Enter the index of element to be deleted : 5
Deleted value is : 23
 List is not empty !
| 56 | * ----> | 34 | * ----> | 100 | * ----> | 8 | * ----> | 9 | * ----> NULL

 Enter your choice : 5

Length of the link list is : 5

 Enter your choice : 6
List is not empty !
| 56 | * ----> | 34 | * ----> | 100 | * ----> | 8 | * ----> | 9 | * ----> NULL

 Enter your choice : 7
Cheking List is empty : false

 Enter your choice : ^C
zaid Desktop $
```

```
1. Enter the elements in the list
2. Search for an element in the list
3. Enter an element at the kth index of created list
4. Delete an element at the kth index of created list
5. To find the length of the string
6. Display list
7 Is list empty

 Enter your choice : 3
Enter the index at which element is to be added:1
Enter the value to be added :3

List is not empty !
| 3 | * ----> NULL

 Enter your choice : 1
Enter the no of elements you want to enter into the LinkedList randomly (INSERTION IN PROCEEDINGS BELOW): 4
Enter the value to be added : 4
Enter the value to be added : 6
Enter the value to be added : 23
Enter the value to be added : 7

 Enter your choice : 6
List is not empty !
| 3 | * ----> | 4 | * ----> | 6 | * ----> | 23 | * ----> | 7 | * ----> NULL

 Enter your choice : 3
Enter the index at which element is to be added:6
Enter the value to be added :100

List is not empty !
| 3 | * ----> | 4 | * ----> | 6 | * ----> | 23 | * ----> | 7 | * ----> | 100 | * ----> NULL

 Enter your choice : 7
Cheking List is empty : false

 Enter your choice : 2
Enter a value to search in the linked list: 4
Found at pos 2

 Enter your choice : 6
List is not empty !
| 3 | * ----> | 4 | * ----> | 6 | * ----> | 23 | * ----> | 7 | * ----> | 100 | * ----> NULL

 Enter your choice : 10
List is not empty !
| 3 | * ----> | 4 | * ----> | 6 | * ----> | 23 | * ----> | 7 | * ----> | 100 | * ----> NULL
Enter a valid choice
```