Text Editor IT 205

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Problem Statement for the Text Editor

- Text Editor are used to type any article or an email or change documentation file and programming source code ...
- Functions:
 - 1 Add the string ::

Here we can input the string any time during the running of the program.

2 Undo string ::

We have used the undo program to remove the last string that we have added and this will store in redo stack

3 Redo string ::

We can add that string which we removed last time that stored in top of the Redo stack .

4 Find and Replace string ::

If we want to change the string then we can change the string which we have to put on that place.

5 Search string ::

If we want to search any word /string it will find and highlight entered word.

How you approach the problem

- Which data structure we used?
 - Here for Undo, Redo operation we have used the Stack data structure to perform pop and push element operation most efficiently.
 - Here We can not use Queue or any other Data structure as well as Stack because we can't insert and remove string following Last In First Out rule.
 - **Linked List** is used to store input string without capacity problem that we faced during using of Array .



Things you learned during the entire project

- We have learnt Most basic implementation of stack that is Undo-Redo through Pop-Push.
- Two stack based implementation will Add feature of Undo more than 1 string/word that is not available in notepad .
- We learnt about What extra features we can add or needed while making Text -Editor like, Replace string one by one if more occurrence detected, search element in text
- Some subsidiary things How to make Editor looks good by adding graphic like Font color, etc.



Limitations for your project

- We can not add string at in between of sentence at specific Position .
- We can not undo character from the any string, we have to undo whole string.
- We can not change the character from the any string, we have to replace whole string by the correct string.
- Updating screen each time after calling function will increase time complexity of program .