Online 6 : Pointer and File

**Date: 13/01/2021**

**Instruction:**

1. Avoid plagiarism. If you are found to adopt any unfair means you will get a straight 0.
2. Upload your code (only the c file) in elms.

**Task:**

(a) Create a function named int len\_str(char\* str) that will return the length of the string str. You can **not** use any library function from string.h. You can **not** use array indexing, you have to use pointer arithmetics to write this function.

(b) Create a function named void alt\_case(char\* str1, char\* str2) that will alternate the case of characters in string str1 and store them in string str2. See sample input output for explanation. This function will return nothing. You can **not** use any library function from string.h. You can **not** use array indexing, you have to use pointer arithmetics to write this function.

(c) You have to take your input from ‘input.txt’ file and write your output in ‘output.txt’ file. ‘input.txt’ file will contain a string. In your main function, open the ‘input.txt’ file in read mode and read the contents of it in a character array. Create another character array. Then using void alt\_case(char\* str1, char\* str2) function to alternate the case of the string in first character array and store them in the second character array. Finally write the contents of the second character array in ‘output.txt’ file.

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| **Input.txt** | **output.txt** |
| Sequence | SeQuEnCe |
| practise | PrAcTiSe |
| strUcture | StRuCtUrE |