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COMSC 140 Python

Program Documentation for

Midterm 3 Ch7 Lists and Tuples Question 1

1/ Link  
<https://github.com/DVC-COMSC/midterm-3-question-1-enduringwriter/blob/main/main.py>

2/ Program Purpose  
This program takes a string as a list and indices as a list, and rearranges the original string to an encrypted string based on the indices.

Assumptions: The lengths of the string value and indices are the same.

3/ Input/Output Description  
Input: string and indices to encrypt the string  
Output: encrypted string

4/ Explanation of All Variables

strval = string input

indices = index values to encrypt

encrypted\_string = encrypted string as a list

encrypted\_string\_joined = encrypted string as a string

i, index = letter and index of letter using enumerate

letter = counter and letter in encrypted string

5/ Flow Chart  
Start > Input string and indices > Assume both the string and indices are of the same length > Rearrange the letters in the string according to the indices > Convert the encrypted string list to a joined string > Output the encrypted string > End

6/ Lesson Learned  
Learned to use enumerate, which inherently indexes the value being looped. Also learned to encrypt.

7/ Errors

Did not add ‘\*len(strval)’ to defined variable.

Outputted string as individual characters instead of joined together.

Used =+ instead of +=.

Forgot to change return value to ‘encrypted\_string\_joined’.