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from character import *
from space import *
from specialSymbol import *

BINSIZE = 5

def convertToBinary(string):
    binaryForm = ''
    for ch in string:
        binaryForm += bin(ord(ch) - 97)[2:].zfill(BINSIZE)
    return binaryForm

def restoreString(binaryForm):
    string = ''
    for i in range(int(len(binaryForm)/BINSIZE)):
        start = i * BINSIZE
        chInBin = binaryForm[start:start+BINSIZE:]
        ch = chr(int(chInBin, 2) + 97)
        string += ch
    return string

def exportToFile(filename, content):
    fopen = open(filename, 'w', encoding='utf-8')
    fopen.write(content)
    fopen.close()

def importFromFile(filename):
    fopen = open(filename, 'r', encoding='utf-8')
    text = fopen.read()
    fopen.close()
    return text

if __name__ == "__main__":
    fopen = open('container.txt', 'r', encoding='utf-8')
    text = fopen.read()
    fopen.close()

    exampleText = convertToBinary(input('Enter your text: '))

    # Encrypt
    ''' Encrypt by replace charater '''
    enText_1 = encryptCharacter(exampleText, text)
    exportToFile('1.txt', enText_1)

    ''' Encrypt by insert spaces '''
    enText_2 = encryptSpace(exampleText, text)
    exportToFile('2.txt', enText_2)

    ''' Encrypt by replace charater '''
    enText_3 = encryptSpecialSymbol(exampleText, text)
    exportToFile('3.txt', enText_3)

    # Decrypt
    ''' Decrypt by replace charater '''
    print(sys.getsizeof(importFromFile('1.txt'))))
    deText = decryptCharacter(importFromFile('1.txt'))
    print('Decrypt by replace character: %s' % restoreString(deText))

    ''' Decrypt by insert spaces '''
    deText = decryptSpace(importFromFile('2.txt'))
    print('Decrypt by replace character: %s' % restoreString(deText))

    ''' Decrypt by replace charater '''
    deText = decryptSpecialSymbol(importFromFile('3.txt'))
    print('Decrypt by replace character: %s' % restoreString(deText))
```