

Jatin Bhagat
AUCSC 111-LAB
ID# 1862200
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Assignment 2

Question 1.

```
#q1.py
#by Jatin Bhagat, Sep/30/24
#Question 1:
# Write a function named censor() that takes the name of a file (a string)
as input. The
# function should:
# o Open the file.
# o Read its contents.
# o Write the contents to a new file, censored.txt, with the following
modification:
# Every occurrence of a four-letter word in the file should be replaced
with the
# string 'xxxx'.

def censor(file_name):
    """
    takes the name of a file (a string) as input. The o Open the file.
    o Read its contents.
    o Write the contents to a new file, censored.txt, with the
following modification:
    Every occurrence of a four-letter word in the file should be
replaced with the
    string 'xxxx'.
    """
    file = open(file_name,"r") # Open The file  for reading
    contents_of_file = file.read() # store the data
    file.close() # close the file
    new_file_censored = open("censored.txt","w") # Opens the file
"censored.txt" for writing, creates the file if it does not exist
    new_file_censored.write(contents_of_file) # write the data store in
"contents_of_file" of the file

    new_file_censored.close() # close the file "censored.txt"
    new_file_censored = open("censored.txt","r") # Opens a file
"censored.txt" for reading
```

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data_of_censored_as_a_list = new_file_censored.readlines() # store the
data of "censored.txt" as a list
remvoe_enter = list(map(lambda
a:a.strip(),data_of_censored_as_a_list)) # remove enter "/n" if there are
any
list_into_string = " ".join(remvoe_enter) # Trun the list in string
when someting ends with " "
splits_string_into_list = list_into_string.split() # splits the string
"list_into_string" when there is " " and turn into list

""" We truned list into a list in to string "list_into_string" this
because we want to look at a individual words and
wnat to change them.
"""

for i in range(0,len(splits_string_into_list)):
    """ repeat the code for the length of list
"splits_string_into_list"
    """
    if len(splits_string_into_list[i]) == 4:
        splits_string_into_list[i] = "xxxx" # if the word that is in
the list "splits_string_into_list" is 4 characters long then replace with
"xxxx"
    elif len(splits_string_into_list[i]) == 5:
        if splits_string_into_list[i][4] == ".":
            splits_string_into_list[i] = "xxxx." # if the word that is
in the list "splits_string_into_list" is 5 characters long and the 5th
characters is "." then replace with "xxxx."
    new_file_censored.close() # close the file

    new_file_censored = open("censored.txt","w") # Opens the file
"censored.txt" for writing,
    splits_string_into_list = " ".join(splits_string_into_list) # Trun the
list in string when someting ends with " "
    new_file_censored.write(splits_string_into_list) # splits the string
"list_into_string" when there is " " and turn into list
    new_file_censored.close() # close the file

""" We truned list into a list in to string "list_into_string" this
because you can only add string with write()

```

```

"""

new_file_censored = open("censored.txt","r") # Opens a file
"censored.txt" for reading
print(new_file_censored.read()) # Prints the data we have changed
new_file_censored.close() # close the file

censor("example.txt")

```

content of both the `example.txt`.

This is a test. The code must pass. Read the file and look. The task is easy.

content of both the `censored.txt` files.

xxxx is a xxxx. The xxxx xxxx xxxx. xxxx the xxxx and xxxx. The xxxx is xxxx.

Question 2.

```

#a
news = s.replace('.', ' ').replace(',', ' ').replace('; ', ' ')
'.replace('\n', ' ') #., ,, ;, and \n are replaced by spaces.

#b
news = news.split() #splits the list into list

news = " ".join(news) # join the list into a string with " "

#c
news = news.lower() # all characters in "newS" are Converted to lowercase.

#d
Count_it_was = news.count("it was") # Counts the number of occurrences of
the string 'it was' in newS and returns the value

#e

```

```
news = news.replace("it was","is") #replaces every occurrence of 'was'
with 'is' in "news"

#f
lists = news.split() #Split newS into a list of words and assign this list
to "listS"
```