15-110 Refresher Session : Week 12

No Calculators, only Brains !!

1. **Warm up : Fill up the Matrix**

Function Name	Description
	Open a file for reading or writing
`close()`	
	Read data as a whole from a file
	Read a single line from the file
`readlines()`	
	Write data to a file
	Read from a CSV file
`seek()`	

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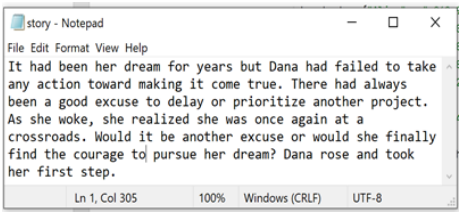
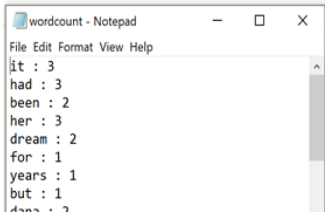
2. **Act like a programmer**
A file **story.txt** contains some text. Implement a function `countWords()`, which writes each word and number of times the word occurs in the file to another file **wordcount.txt**. Note that "book" is the same as "Book", i.e. the words are case-insensitive. The files are as shown :





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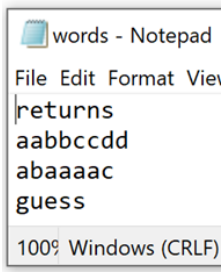
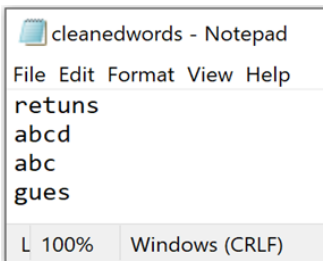
3. **Fill in the blanks to attain the output presented below**





```
def __________(L):
    for _ in range(len(L)):
        encounteredChar = ''
        word = L[i]
        word = word.strip(____)
        for char in word :
            if char ______ encounteredChar :
                encounteredChar _______ char
        L[i] = ________________
    ----------------------

fileIn = open("words.txt")
fileOut = open("_________________________" , ________)

words = fileIn.____________________()
cleanedWords = cleanWords(words)

for word in cleanedWords :
    fileOut.write(word + '\n')

finalIn._________()
finalOut.________()
```

4. **Act like a Programmer**
Around 15 years back, when mobile phones were still not commonplace, people used to note down contacts in a book called phone book (now, we have our phone contacts). The contact numbers were written in alphabetic order of the person's name, which made it easier to find it in the book. Given the phone numbers of a few people in a file called **phonebook.csv**, create a function `qatariNumbers()` that copies only the Qatari names and numbers to another file called `qatarinumbers.txt`.