OUTPUTS
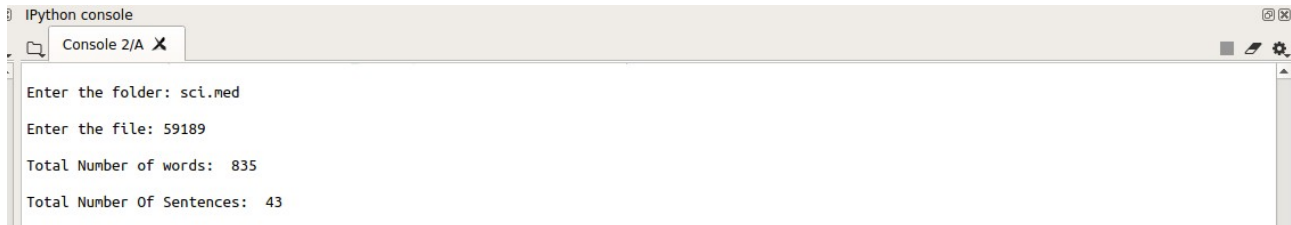
Folder Name: sci.med **and** *File Name:* 59189

Screenshot 1:

Below screenshot shows total number of words, sentences in a file.

```
IPython console                                                        ⊡ ⊠
  ⌐  Console 2/A ✗                                                    ■ ✎ ⚙

Enter the folder: sci.med

Enter the file: 59189

Total Number of words:  835

Total Number Of Sentences:  43
```

Screenshot 2:

Error Message occured if file or folder not present and exited.

```
IPython console
  ⌐  Console 1/A ✗

In [14]: runfile('/home/surbhi/NLP/NLP_A1.py', wdir='/home/surbhi/NLP')

Enter the folder: sci.med

Enter the file: 1234

Exception Occured

In [15]:
```

Screenshot 3:

Below screenshot shows the number of vowels and number of consonants presents i.e 78 and 304. It also shows list of all vowels and consonants.

```
IPython console                                                        ⊡ ⊠
  ⌐  Console 2/A ✗                                                    ■ ✎ ⚙

Total Number of Words Starting with Vowel:  78
vowels:  ['ob/gyn', 'every', 'every', 'unacceptable', 'also', 'inches', 'also', 'add', 'operation', 'ago', 'endometriosis', 'endometriosis',
'apparently', 'unless', 'anyway', 'almost', 'eliminated', 'eating', 'every', 'addition', 'upper', 'abdomen', 'usually', 'ate', 'entire',
'abdomen', 'area', 'ate', 'avoid', 'already', 'aware', 'effect', 'avoiding', 'able', 'eat', 'instance', 'except', 'anyway', 'etc', 'allowed',
'avoid', 'anything', 'e.g', 'also', 'one', 'even', 'oil', 'eat', 'understand', 'expecting', 'information', 'originally', 'entire', 'overweight',
'also', 'asked', 'obese', 'anyway', 'overly', 'one', 'one', 'understand', 'anyway', 'even', 'assumes', 'eating', 'endometriosis', 'operation',
'able', 'use', 'energy', 'eat', 'opinions', 'info', 'experiences', 'appreciated', 'end', 'eat']

Total Number of Words Starting with Consonant:  304
consonant:  ['hi', 'returned', 'visit', 'concerns', 'maybe', "y'all", 'help', 'seeing', 'four', 'weeks', 'past', 'months', 'week', 'twenty-
eight', 'last', 'two', 'visits', 'gained', 'nine', 'nine', 'pounds', 'four', 'weeks', 'said', 'four', 'week', 'period', 'stands', 'thus', 'far',
'gained', 'twenty-six', 'pounds', 'says', 'though', 'twenty-eight', 'weeks', 'baby', 'size', 'twenty-seven', 'weeks', 'think', 'mentioned',
'twenty-seven', 'top', 'fundus', 'thirteen', 'weeks', 'baby', 'size', 'fourteen', 'weeks', 'must', 'years', 'problems', 'causing', 'pain',
'pelvic', 'region', 'pregnancy', 'difficult', 'time', 'moving', 'doc', 'recommended', 'walk', 'move', 'little', 'handicapped', 'sticker', 'need',
'go', 'situation', 'beginning', 'pregnancy', 'getting', 'sick', 'throwing', 'times', 'day', 'mostly', 'bile', 'told', 'know', "n't", 'much',
'due', 'nausea', 'could', 'see', 'well', 'get', 'sick', 'weeks', 'still', 'bile', 'related', 'begun', 'feel', 'movement', 'near', 'right',
'right', 'breast', 'lying', 'right', 'side', 'began', 'get', 'worse', 'though', 'started', 'hurt', 'lay', 'right', 'side', 'hurt', 'matter',
'position', 'next', 'noticed', 'greasy', 'fatty', 'foods', 'felt', 'like', 'turned', 'stone', 'pain', 'got', 'worse', 'however', 'sauerkraut',
'vinegar', 'something', 'fat', "n't", 'much', 'problem', 'doctor', 'says', 'cholistatis', 'fatty', 'foods', 'makes', 'sense', 'seemed', 'cause',
'relationship', 'foods', 'still', 'foods', 'ricotta', 'cheese', 'low', 'fat', 'foods', 'doc', 'wants', 'non-fat', 'diet', 'means', 'meat',
'fish', 'chicken', 'w/o', 'skin', 'nuts', 'fried', 'food', 'cheese', 'skim', 'milk', 'said', 'sweet', 'bananas', 'must', 'serving', 'something',
'high', 'carbohydrates', 'day', 'potatoes', 'pasta', 'rice', 'said', 'ca', "n't", 'cook', 'vegetables', 'little', 'bit', 'vegetables', 'raw',
'steamed', 'concerned', 'need', 'fat', 'diet', 'help', 'digestive', 'process', 'taking', 'fat', 'baby', 'take', 'stores', 'restriction',
'carbohydrates', 'concerned', 'fat', 'clear', 'much', 'recommendation', 'based', 'weight', 'gain', 'much', 'cholistatis', 'ca', "n't", 'seem',
'find', 'said', 'gain', 'twenty', 'pounds', 'pregnancy', 'since', 'twenty', 'lbs', 'started', 'sister', 'gained', 'sixty', 'lbs', 'pregnancy',
'taken', "n't", 'problems', 'members', 'family', 'none', 'think', 'concerned', 'weight', 'gain', 'feel', 'like', 'severe', 'diet', 'want', 'see',
'week', 'think', 'diet', 'may', 'temporary', 'week', 'want', 'know', 'reasonable', 'non-fat', 'diet', 'would', 'said', 'low-fat', 'diet',
'since', 'trying', 'said', 'really', 'low-fat', 'diet', 'think', 'must', 'high-fat', 'diet', 'really', 'food', 'truly', 'going', 'stark',
'raving', 'mad', 'trying', 'meet', 'new', 'strict', 'diet', 'fruits', 'vegetables', 'go', 'system', 'minutes', 'constantly', 'thus', 'far',
"n't", 'find', 'foods', 'satisfying', 'thanks', 'g']

Emails:
1       heart@access.digex.com
2       <1r7n8nSnkv@access.digex.net>
IPython console   History log
```

Screenshot 4:
Below screenshot shows the list of emails in a file.

```
Emails:
1        heart@access.digex.com
2        <1r7n8n$okv@access.digex.net>
```

Screenshot 5:
Below screenshot shows total number of sentences with start word and end word in a file.

```
Enter the  Starting word you want to find : this

Sentences:
1 . This makes sense, and because I was already aware
of what seemed to me this cause and effect relationship I have
been avoiding these foods on my own.

2 . This means no meat
except fish and chicken w/o skin (I do this anyway).


Total Number Of Sentences Starting With:  this :  2


Enter the Ending word you want to find : foods

Sentences:
1 . So the doctor says I have cholistatis, and that I should avoid
fatty foods.

2 . But I'm still able to eat
foods with Ricotta cheese for instance and other low fat foods.


Total Number Of Sentences Ending With:  foods :  2
```
IPython console | History log

Screenshot 6:
Below screenshot total occurences of word in a file and total number of sentences contating that word.
Here in first case, we enter input as "twenty"

```
⊠  IPython console                                                      ▢⊠
⋆  ▢   Console 2/A  ✗                                             ■ ✎ ✿

   Enter the specific word you want to search in a file or sentence : twenty

   Number of times ( twenty ) present in the File:  2


   Sentences:
   1 . She
   originally said that I should only gain 20 pounds during the
   entire pregnancy since I was about 20 lbs overweight when I
   started.

   Number of times ( twenty ) present in Sentence in the File:  1
```

Now we enter input as 20.

```
   Enter the specific word you want to search in a file or sentence : 20

   Number of times ( twenty ) present in the File:  2


   Sentences:
   1 . She
   originally said that I should only gain 20 pounds during the
   entire pregnancy since I was about 20 lbs overweight when I
   started.

   Number of times ( twenty ) present in Sentence in the File:  1
```
IPython console | History log

Note : Thus, from above 2 outputs we can see that both 20 or "twenty" gives the same output. So we can search number in any form.

Screenshot 4:
If word not present it'll give message no word found.

```
Enter the  Starting word you want to find : x

No sentence has a Starting word:  x


Enter the Ending word you want to find : y

No sentence has a Ending word:  y


Enter the specific word you want to search in a file or sentence : z

 z not present in a File

Sentences:

No Sentence contains ( z ) in a File
```
IPython console   History log

Screenshot 5:
Shows questions abbreviations and time in minutes and seconds present in a file.

```
Total Number of Questions 3
Questions:  ["And if \nI'm not taking in fat, is she expecting the baby will take it \nfrom my stores?", "And why this restriction on
carbohydrates if \nshe's concerned about fat?", 'What I want to know is how reasonable is this non-fat diet?']


Abbreviations:
MD
USA
ID
NNTP
OB
GYN

Total Number of Abbrevations:  6
19:51
Time List:  ['19:51']

In [23]:
```