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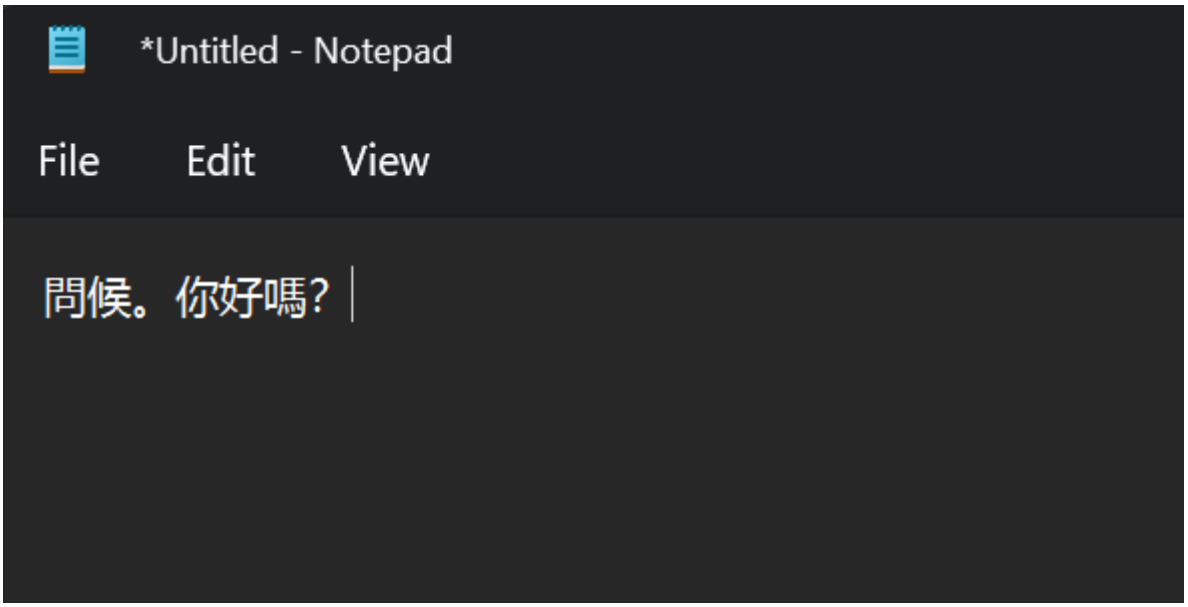
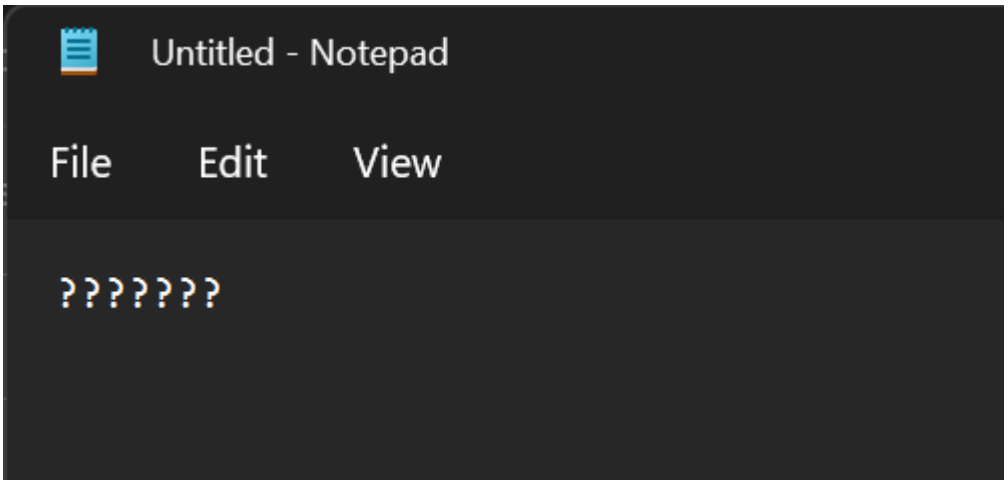
Reg. No. - 19BCE2501

NLP Tasks

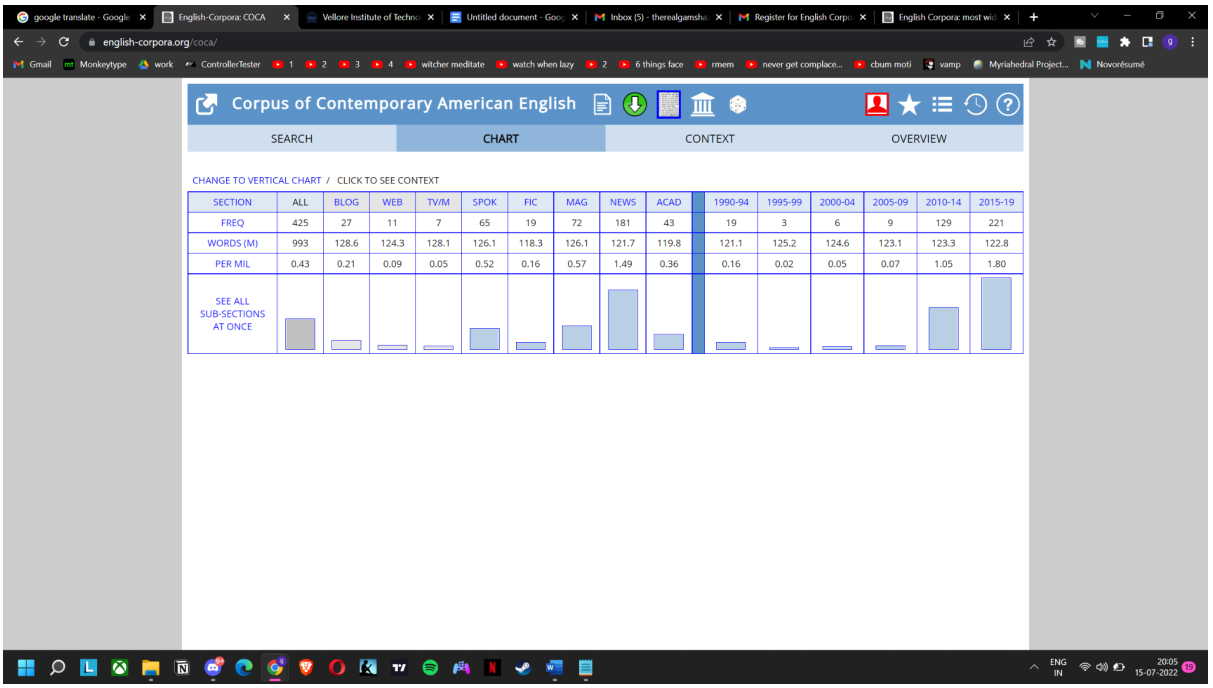
1. Encoding

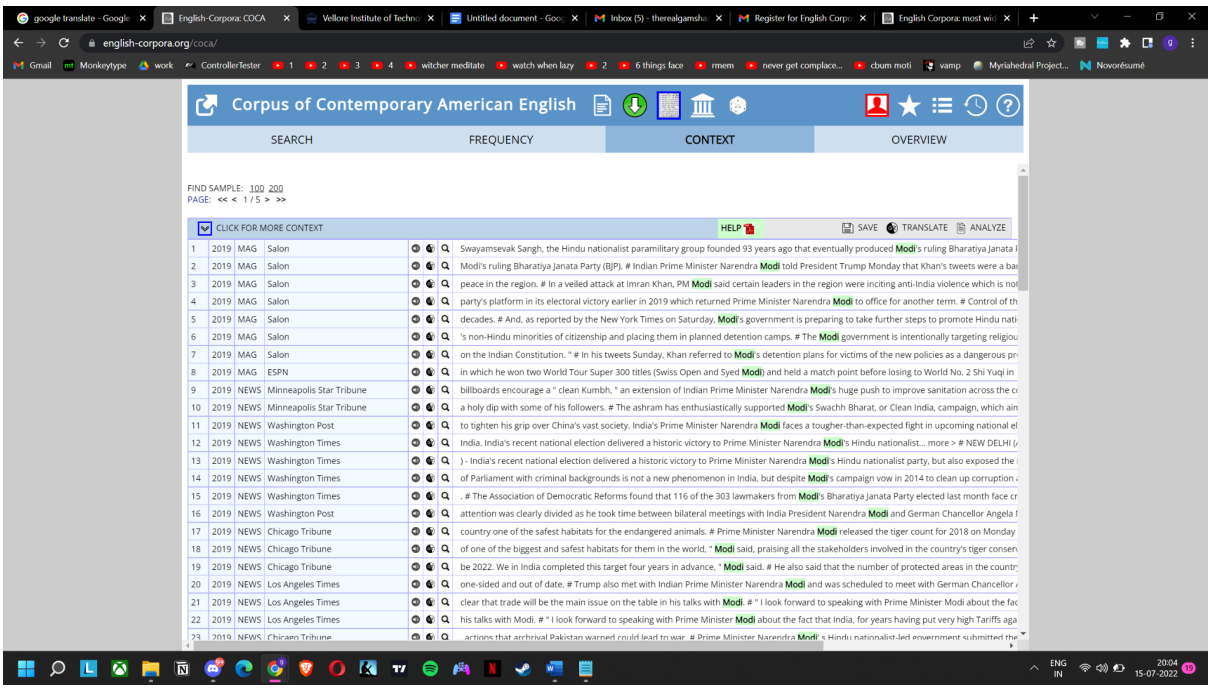




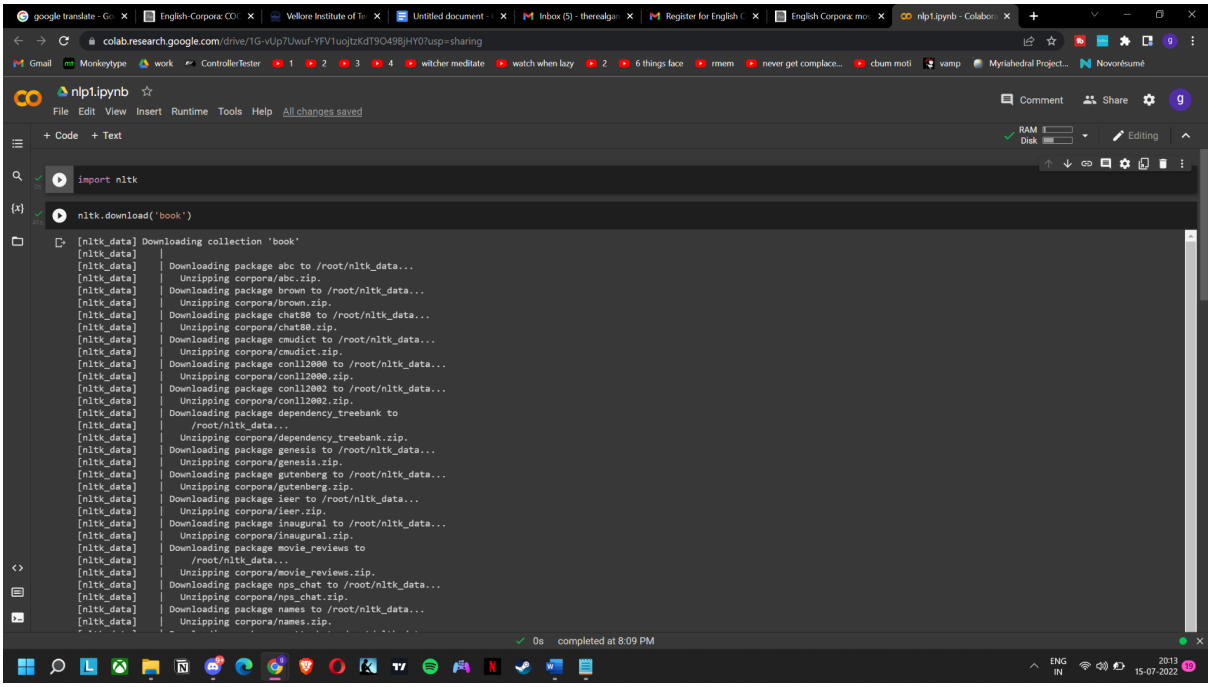
2. ‘modi’ COCA

We can see that the popularity of modi in articles has been constantly increasing to the point where it has reached almost 2 words per million.





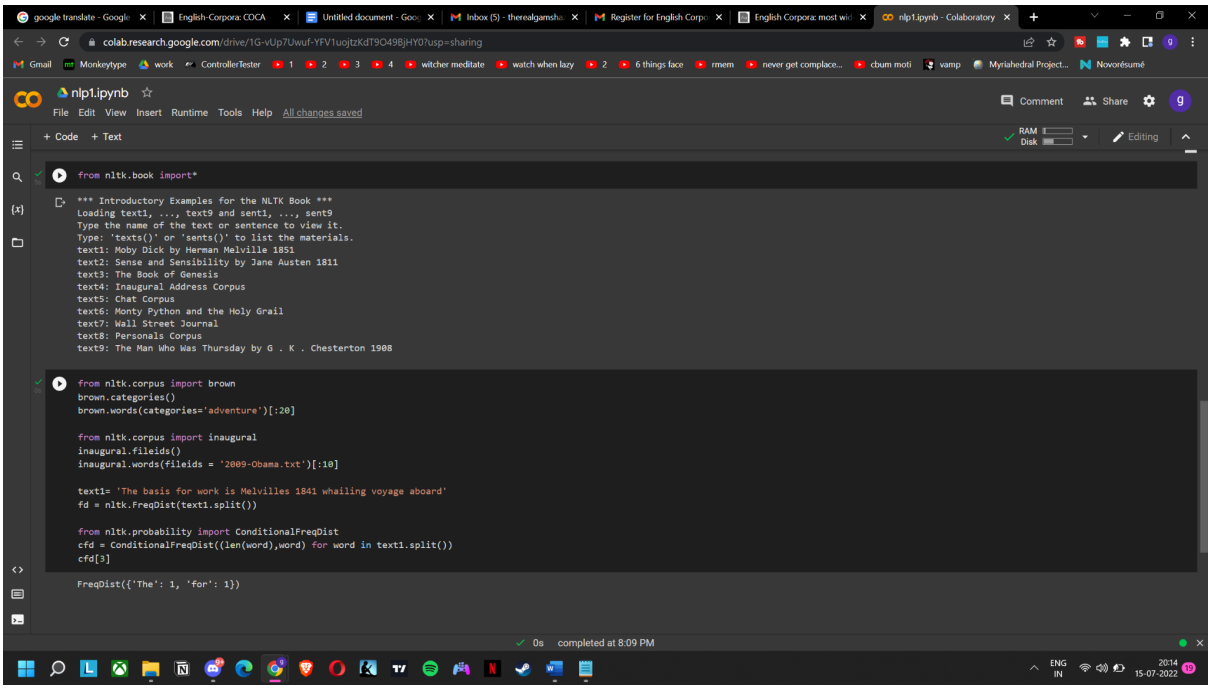
3. Read book and frequency



```
import nltk
```

```
nltk.download('book')
```

```
[nltk_data] Downloading collection 'book'
[nltk_data]    |
[nltk_data]    | Downloading package abc to /root/nltk_data...
[nltk_data]    |   Unzipping corpora/abc.zip.
[nltk_data]    | Downloading package brown to /root/nltk_data...
[nltk_data]    |   Unzipping corpora/brown.zip.
[nltk_data]    | Downloading package chat80 to /root/nltk_data...
[nltk_data]    |   Unzipping corpora/chat80.zip.
[nltk_data]    | Downloading package cmudict to /root/nltk_data...
[nltk_data]    |   Unzipping corpora/cmudict.zip.
[nltk_data]    | Downloading package conll2000 to /root/nltk_data...
[nltk_data]    |   Unzipping corpora/conll2000.zip.
[nltk_data]    | Downloading package conll2002 to /root/nltk_data...
[nltk_data]    |   Unzipping corpora/conll2002.zip.
[nltk_data]    | Downloading package dependency_treebank to
[nltk_data]    |     /root/nltk_data...
[nltk_data]    |   Unzipping corpora/dependency_treebank.zip.
[nltk_data]    | Downloading package genesis to /root/nltk_data...
[nltk_data]    |   Unzipping corpora/genesis.zip.
[nltk_data]    | Downloading package gutenberg to /root/nltk_data...
[nltk_data]    |   Unzipping corpora/gutenberg.zip.
[nltk_data]    | Downloading package ieer to /root/nltk_data...
[nltk_data]    |   Unzipping corpora/ieer.zip.
[nltk_data]    | Downloading package inaugural to /root/nltk_data...
[nltk_data]    |   Unzipping corpora/inaugural.zip.
[nltk_data]    | Downloading package movie_reviews to
[nltk_data]    |     /root/nltk_data...
[nltk_data]    |   Unzipping corpora/movie_reviews.zip.
[nltk_data]    | Downloading package nps_chat to /root/nltk_data...
[nltk_data]    |   Unzipping corpora/nps_chat.zip.
[nltk_data]    | Downloading package names to /root/nltk_data...
[nltk_data]    |   Unzipping corpora/names.zip.
```



```
from nltk.book import*
```

```
*** Introductory Examples for the NLTK Book ***
Loading text1, ..., text9 and sent1, ..., sent9
Type the name of the text or sentence to view it.
Type: 'texts()' or 'sents()' to list the materials.
text1: Moby Dick by Herman Melville 1851
text2: Sense and Sensibility by Jane Austen 1811
text3: The Book of Genesis
text4: Inaugural Address Corpus
text5: Chat Corpus
text6: Monty Python and the Holy Grail
text7: Wall Street Journal
text8: Personals Corpus
text9: The Man Who Was Thursday by G . K . Chesterton 1908
```

```
from nltk.corpus import brown
brown.categories()
brown.words(categories='adventure')[:20]

from nltk.corpus import inaugural
inaugural.fileids()
inaugural.words(fileids = '2009-Obama.txt')[:10]

text1= 'The basis for work is Melvilles 1841 whailing voyage aboard'
fd = nltk.FreqDist(text1.split())

from nltk.probability import ConditionalFreqDist
cfd = ConditionalFreqDist((len(word),word) for word in text1.split())
cfd[3]
```

```
FreqDist({'The': 1, 'for': 1})
```

4.

Application of CORPUS

The creation, publishing, and revision of dictionaries benefit greatly from corpus linguistics since it allows linguists to quickly access instances of words or phrases from millions of spoken and written texts. Additionally, lexicographers have immediate access to the most recent data because corpora are continually expanding and adding new texts.