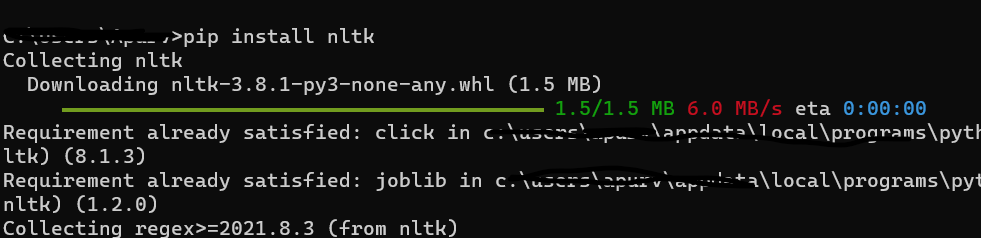
**Natural Language Processing**

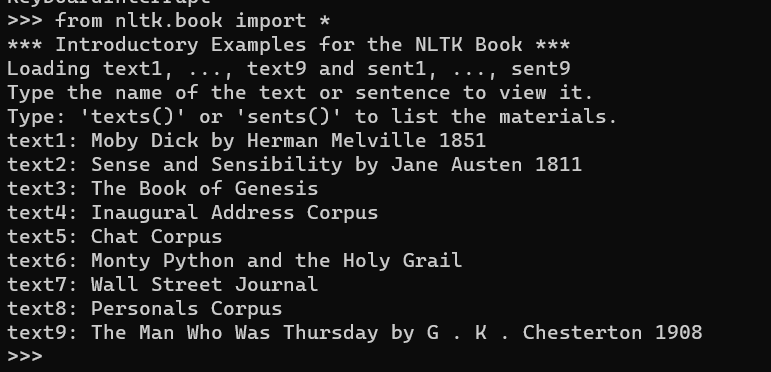
## Chapter 1 : Language Processing with Python

* Getting started with python
* Learn to use python interpreter
* Getting started with NLTK
* Download NLTK – command prompt – “pip install nltk”
* In python interpreter :
* import nltk
* nltk.download() – select book



A screenshot of a computer

Description automatically generated

* as above download some data on the machine and then load some texts for exploration using python interpreter.
* 

**>>> 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**

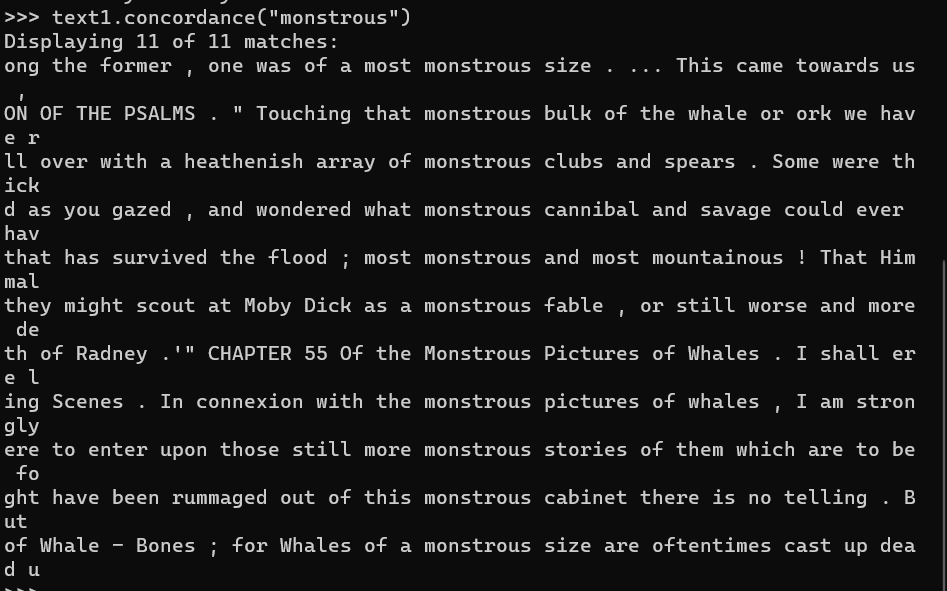
**text8: Personals Corpus**

**text9: The Man Who Was Thursday by G . K . Chesterton 1908**

**>>>**

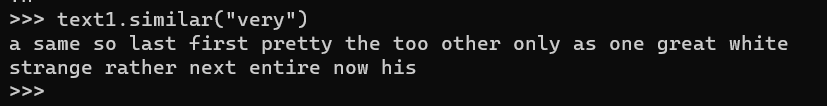
* Text1
* **Searching text**
* A concordance view shows us every occurrence of a given word, together with some context.

**>>> text1.concordance("monstrous")**



A concordance permits us to see words in context.

* We can find out appending the term like the name of the text in question, then inserting relevant word in parentheses

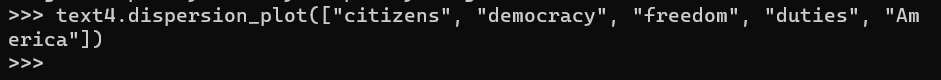


* The term **common\_contexts** allows us to examine just the contexts that are shared by two or more words, such as monstrous and very. We must enclose these words by square brackets as well as parentheses, and separate them with a comma

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Description automatically generated

* We can also determine location of a word in the text, this positional information can be displayed using dispersion plot.



* We can also generate random text

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