```
In [2]: file-open('opinion.txt','r')
text=file.read()

In [3]: w=word_tokenize(text)
len(w)

Out[3]: 93

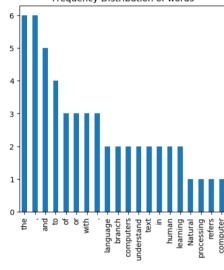
In [4]: from nltk.probability import FreqDist
afd=FreqDist(w).most_common(20)
print(afd)
    [('the', 6), (',', 6), ('and', 5), ('to', 4), ('of', 3), ('or', 3), ('with', 3), ('.', 3), ('language', 2), ('branch', 2), ('computers', 2), ('understand', 2), ('text', 2), ('i
n', 2), ('human', 2), ('learning', 2), ('Natural', 1), ('processing', 1), ('refers', 1), ('computer', 1)]

In [13]: import maptiolib.pyplot as plt
import pandas as pd
afd=pd.Series(dict(afd))
fig_ax=plt.suplots(figsize=(5,5))
afd_plot(kind='bar')
plt.title('Frequency Distribution of words')

Frequency Distribution of words

Frequency Distribution of words

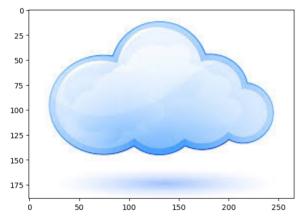
Frequency Distribution of words
```



In [1]: from nltk.tokenize import word_tokenize

```
In [20]: from skimage.io import imread
    tree=imread('cloud.jpg')
    plt.imshow(tree)
```

Out[20]: <matplotlib.image.AxesImage at 0x2bb91173190>



```
In [22]:
    from wordcloud import WordCloud,STOPWORDS
    import matplotlib.pyplot as plt
    s=set(STOPWORDS)
    w=WordCloud(width=800,height=800,stopwords=s,background_color='white',min_font_size=10,mask=tree).generate(text)
    plt.figure(figsize=(5,5),facecolor=None)
    plt.imshow(w)
    plt.axis('off')
    plt.show()
```



In [9]: nltk.download('words')
 from nltk.corpus import words
 cw=words.words()

[nltk_data] Error loading words: <urlopen error [WinError 10061] No
 [nltk_data] connection could be made because the target machine
 [nltk_data] actively refused it>

In [10]: iw=['happpy', 'amzzzzzzzzzzzzzzzing', 'inteliegent', 'cllege']
 for word in iw:
 temp=[(edit_distance(word,w),w)for w in cw if w[0]==word[0]]
 print(sorted(temp,key=lambda val:val[0])[0][1])

intelligent
college

In [11]: text=text.upper()

print(text)

In [8]: import nltk

from nltk.metrics.distance import edit distance

NATURAL LANGUAGE PROCESSING REFERS TO THE BRANCH OF COMPUTER SCIENCE AND MORE SPECIFICALLY, THE BRANCH OF ARTIFICIAL INTELLIGENCE OR AI, CONCERNED WITH GIVING COMPUTERS THE ABI
LITY TO UNDERSTAND TEXT AND SPOKEN WORDS IN MUCH THE SAME WAY HUMAN BEINGS CAN. NLP COMBINES COMPUTATIONAL LINGUISTICS WITH STATISTICAL, MACHINE LEARNING, AND DEEP LEARNING MOD
ELS. TOGETHER, THESE TECHNOLOGIES ENABLE COMPUTERS TO PROCESS HUMAN LANGUAGE IN THE FORM OF TEXT OR VOICE DATA AND TO UNDERSTAND ITS FULL MEANING, COMPLETE WITH THE SPEAKER OR
WRITERS INTENT AND SENTIMENT.

In [12]: text=text.lower()
print(text)

natural language processing refers to the branch of computer science and more specifically, the branch of artificial intelligence or ai, concerned with giving computers the ability to understand text and spoken words in much the same way human beings can. nlp combines computational linguistics with statistical, machine learning, and deep learning mod els. together, these technologies enable computers to process human language in the form of text or voice data and to understand its full meaning, complete with the speaker or writers intent and sentiment.

In []: