```
In [2]:
         import re # regular expression library
         import nltk # natural language toolkit library
         import string
          File "C:\Users\MEHDIH~1\AppData\Local\Temp/ipykernel 5108/227190490.py", line 4
             jupyter nbconvert --to webpdf --allow-chromium-download Untitled.ipynb
        SyntaxError: invalid syntax
In [27]:
         original text = """Artificial intelligence is human like intelligence.
                            It is the study of intelligent artificial agents.
                            Science and engineering to produce intelligent machines.
                            Solve problems and have intelligence.
                            Related to intelligent behavior.
                            Developing of reasoning machines.
                            Learn from mistakes and successes.
                            Artificial Intelligence is related to reasoning in everyday situations
In [28]:
        original text
        'Artificial intelligence is human like intelligence.\n
                                                                                  It is the study o
Out[28]:
        f intelligent artificial agents.\n
                                                              Science and engineering to produce in
        telligent machines.\n
                                                 Solve problems and have intelligence.\n
                                                                      Developing of reasoning machi
                Related to intelligent behavior.\n
        nes.\n
                                 Learn from mistakes and successes.\n
                                                                                         Artificial
        Intelligence is related to reasoning in everyday situations.'
In [29]:
         original text = re.sub(r'\s+', '', original text)
In [46]:
        original text
        'Artificial intelligence is human like intelligence. It is the study of intelligent artifi
Out[46]:
        cial agents. Science and engineering to produce intelligent machines. Solve problems and h
        ave intelligence. Related to intelligent behavior. Developing of reasoning machines. Learn
        from mistakes and successes. Artificial Intelligence is related to reasoning in everyday s
        ituations.'
In [47]:
        nltk.download('punkt')
         [nltk data] Downloading package punkt to C:\Users\Mehdi
                     Houshmand\AppData\Roaming\nltk data...
         [nltk data]
        [nltk data] Unzipping tokenizers\punkt.zip.
        True
Out[47]:
In [56]:
         nltk.download('stopwords')
         [nltk data] Downloading package stopwords to C:\Users\Mehdi
         [nltk data] Houshmand\AppData\Roaming\nltk data...
        [nltk data] Unzipping corpora\stopwords.zip.
        True
Out[56]:
In [76]:
         stopwords = nltk.corpus.stopwords.words('english') #these are the words in english that he
         #print(stopwords)
         #len(stopwords)
```

```
In [78]:
         string.punctuation
         '!"#$%&\'()*+,-./:;<=>?@[\\]^ `{|}~'
Out[78]:
In [83]:
         def preprocess(text): # defining our function and it recieves Text as parameter and will
             formatted text = text.lower() # this function lower here makes the texts in Lowercase
             tokens = [] # made new variable which includes each one of the words we have in the st
             for token in nltk.word tokenize(formatted text):
                 tokens.append(token)
                 #print(tokens)
             tokens = [word for word in tokens if word not in stopwords and word not in string.pund
             formatted text = ' '.join(element for element in tokens)
             return formatted text
In [84]:
         formatted text = preprocess(original text) #now make a variable to implement our function
         formatted text
        'artificial intelligence human like intelligence study intelligent artificial agents scien
Out[84]:
        ce engineering produce intelligent machines solve problems intelligence related intelligen
        t behavior developing reasoning machines learn mistakes successes artificial intelligence
        related reasoning everyday situations'
In [ ]:
 In [ ]:
```