In [1]:

```
sent = ['call', 'me', 'henry',1,1]
len(sent)
```

Out[1]:

```
5
```

In [2]:

```
def lexical_diversity(text):
    return len(set(text))/len(text)

lexical_diversity(sent)
```

Out[2]:

```
0.8
```

In [3]:

```
f = open('This is text file.txt', 'r')
l = list(f.read().split(' '))
print(l)
```

```
['this', 'is', 'text', 'file', 'used', 'in', 'python', 'program', "\n\nlis
t(f.read().split('", "'))\nI", 'don’t', 'think', 'its', 'wrong', 'unless',
'you', 'exaggarate', 'your', 'accomplishments', 'and', 'start', 'to', 'thr
ow', 'some', 'random', 'bullshit', 'that', 'cause', 'other', 'people', 'un
comfortable.\n\nI', 'have', 'a', 'best', 'friend', 'who', 'always', 'bra
g', 'about', 'herself', 'but', 'I’m', 'used', 'to', 'it', 'now.\n\nThe',
'problem', 'is:', 'She', 'won’t', 'ever', 'listen', 'to', 'other', 'peopl
e', 'stories', 'and', 'always', 'proud', 'of', 'what', 'she', 'have', 'ach
ieve', 'in', 'her', 'life.\n\nFor', 'example:', 'She', 'is', 'her', 'pro
f’s', 'favorite', 'since', 'she', 'actively', 'participate', 'events', 'i
n', 'her', 'class.']
```

In [4]:

```
lexical_diversity(l)
```

Out[4]:

```
0.8148148148148148
```

In [5]:

```
from nltk.tokenize import word_tokenize
```

In [6]:

```
text = "This is a sentence"
word_tokenize(text)
```

Out[6]:

```
['This', 'is', 'a', 'sentence']
```

In [ ]:

```
```