

## AI Lab\Exp\_08\stemming nltk.py

```
1 import nltk
2 from nltk.stem import PorterStemmer
3 from nltk.tokenize import word_tokenize
4
5 nltk.download('punkt', quiet=True)
6
7 def stem_sentence(sentence):
8     stemmer = PorterStemmer()
9     words = word_tokenize(sentence)
10    stemmed_words = [stemmer.stem(word) for word in words]
11    return ' '.join(stemmed_words)
12
13 if __name__ == "__main__":
14     sentence = "The runners were running and jumping over the obstacles quickly"
15     print(f"Original: {sentence}")
16     print(f"Stemmed: {stem_sentence(sentence)}")
```