

```
In [1]: !pip install nltk
```

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Requirement already satisfied: nltk in c:\users\pronn\anaconda3\lib\site-packages
(3.7)
Requirement already satisfied: click in c:\users\pronn\anaconda3\lib\site-packages
(from nltk) (8.0.4)
Requirement already satisfied: tqdm in c:\users\pronn\anaconda3\lib\site-packages
(from nltk) (4.64.1)
Requirement already satisfied: regex>=2021.8.3 in c:\users\pronn\anaconda3\lib\site-packages
(from nltk) (2022.7.9)
Requirement already satisfied: joblib in c:\users\pronn\anaconda3\lib\site-packages
(from nltk) (1.1.0)
Requirement already satisfied: colorama in c:\users\pronn\anaconda3\lib\site-packages
(from click->nltk) (0.4.5)
```

```
In [2]: import re
```

[illegible]

```
# Step 5b
if re.search(r'[aeiouy].*ll$', word) :
    word = re.sub('ll$', 'l', word)

return word

words_to_stem = ["walking", "swayed", "happily", "seen", "children"]
stemmed_words = [porter_stemmer(word) for word in words_to_stem]
print(stemmed_words)
```

```
['walking', 'swai', 'happili', 'seen', 'children']
```

```
In [3]: from nltk.stem import PorterStemmer

nltk_stemmer = PorterStemmer()

nltk_stemmed_words = [nltk_stemmer.stem(word) for word in words_to_stem]
print(nltk_stemmed_words)
```

C:\Users\pronn\anaconda3\lib\site-packages\scipy__init__.py:155: UserWarning: A NumPy version >=1.18.5 and <1.25.0 is required for this version of SciPy (detected version 1.26.0

```
warnings.warn(f"A NumPy version >={np_minversion} and <{np_maxversion}")
['walk', 'sway', 'happili', 'seen', 'children']
```