

## Porter Stemmer Algorithm

Input :

```
import nltk
from nltk.stem import PorterStemmer

# Create a Porter Stemmer object
stemmer = PorterStemmer()

words = ["running", "flies", "happily", "better", "ponies", "easily", "trouble",
         "quickly", "jumping", "beautiful", "unhappiness", "happiness", "coding"]

# Apply stemming to each word
stemmed_words = [stemmer.stem(word) for word in words]

#zip(words, stemmed_words) function in Python is used to combine two or more iterables (like lists or tuples) element-wise
for word, stemmed_word in zip(words, stemmed_words):
    print(f"{word}: {stemmed_word}")
```

Output :

```
running: run
flies: fli
happily: happili
better: better
ponies: poni
easily: easili
trouble: troubl
quickly: quickli
jumping: jump
beautiful: beauti
unhappiness: unhappi
happiness: happi
coding: code
```

Repo link

[https://github.com/Shreyaww/Sem7\\_NLP/blob/main/Experiment3.ipynb](https://github.com/Shreyaww/Sem7_NLP/blob/main/Experiment3.ipynb)