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TASK9-AILAB

**4: Stemming (Snowball Stemmer)**

This code is uses the Natural Language Toolkit means nltk to perform stemming on the list of English words, stemming is a process of reducing words to their base or root form, it means that it is like a smart tool that cuts off parts of words to find the main part of the word. For example, word like "singing", "sings", and "singer" into just "sing". A list of words is provided, and each word is passed through the stemmer to get its stemmed version means root version. These stemmed words are then stored in a new list. Finally, the code prints each original word alongside its stemmed version to show the result of the stemming process.

**Code:**

import nltk

from nltk.stem.snowball import SnowballStemmer

#the stemmer requires a language parameter

snow\_stemmer = SnowballStemmer(language='english')

#list of tokenized words

words = ['cared','university','fairly','easily','singing',

'sings','sung','singer','sportingly']

stem\_words = []

for w in words:

x = snow\_stemmer.stem(w)

stem\_words.append(x)

#print results

for e1,e2 in zip(words,stem\_words):

print(e1+' ----> '+e2)

**Output**

