1. **Use the Porter Stemmer algorithm to perform word stemming on a list of words using python libraries.**

**Aim:**

To perform word stemming on a list of words using Porter Stemmer Algorithm in Python.

**Code:**

import nltk

from nltk.stem import PorterStemmer

nltk.download('punkt')

ps = PorterStemmer()

user\_input = input("Enter words separated by spaces: ")

words = user\_input.split()

stemmed\_words = [ps.stem(word) for word in words]

print("\nOriginal Words:", words)

print("Stemmed Words:", stemmed\_words)

**Input:**

Enter words separated by spaces: running played jumping quickly faster easily

**Output:**

Original Words: ['running', 'played', 'jumping', 'quickly', 'faster', 'easily']

Stemmed Words: ['run', 'play', 'jump', 'quick', 'faster', 'easy']

