**PROGRAM-8**

**Aim:** Write a program in python to implement stemming for a given sentence using NLTK

**Logic:** Stemming is the process of producing morphological variants of a root/base word. Stemming programs are commonly referred to as stemming algorithms and stemmers. It reduces the given words into the root word.

**Algorithm:**

1. Import PorterStemmer from nltk.stem
2. Import word-tokenize from nltk.tokenize
3. Input a sentence
4. Tokenize it
5. Print the root word of each word in the sentence

**Implementation:**

from nltk.stem import PorterStemmer

from nltk.tokenize import word\_tokenize

ps = PorterStemmer()

message = *input*("Enter message for stemming : ")

words = word\_tokenize(message)

*print*("Root words are : ")

for word in words:

*print*(*f*"{word} : {ps.stem(word)}")

**Input:**

Programmers program with programming languages

**Output:**

