Light Stemming Technique: we try to find stem word on basis of some prefix or suffix

suffix: post of the word prefix: pre of the word

[13]: suffix = "ing"
[14]: l = len(suffix)

[16]: word = input('Enter the word:')
if word.endswith(suffix):
 stem = word[:1]

[15]: print(1)

else:

```
stem = word
     print('Light Stemming:',stem)
     Enter the word: eat
     Light Stemming: eat
[17]: word = input('Enter the word:')
     if word.endswith(suffix):
       stem = word[:1]
       stem = word
     print('Light Stemming:',stem)
     Enter the word: eating
     Light Stemming: eat
     #### Langauge-specific Morphological Stemming (Hindi Example)
     running -> Hindi form -> chalna
     Indicnlp used for Hindi NLP Techniques: https://github.com/anoopkunchukuttan/indic_nlp_library
[23]: word = "ladkiyon" # girls
     suffix = "yon"
     1 = len(suffix)
     stem = word[:-1*1] if word.endswith(suffix) else word
     print(stem)
     ladki
     Stemming Algorithms

    Porter Stemmer

    Snowball Stemmer

       • LanCaster Stemmer
     Example
         flies => porter => fli => fli => fli
        happily => happili => happi => happy
         fishing => fish => fish => fish
        better => better => bet
[28]: from nltk.stem import PorterStemmer, SnowballStemmer, LancasterStemmer
[30]: ps = PorterStemmer()
     sb = SnowballStemmer('english') # Snowball stemmer takes english as langauge
     lc = LancasterStemmer()
[33]: words = ['running', 'flies', 'happily', 'fishing', 'better']
     print(f" {'word':<20} {'Porter':<20} {'Snowball':<20} {'Lancaster':<20}")</pre>
     print("-"*80)
      word
                      Porter Snowball
                                                      Lancaster
[34]: print(f" {'word':<20} {'Porter':<20} {'Snowball':<20} {'Lancaster':<20}")
     print("-"*80)
     ## use for loop to print the output
      for w in words:
        print(f" {w:<20} {ps.stem(w):<20} {sb.stem(w):<20} {lc.stem(w):<20}")</pre>
     print("-"*80)
      word
                       Porter
                                         Snowball
                                                           Lancaster
      ______
      running run
                        fli
                                          fli
                                                             fli
                                     +ll
happili
-:
                     happili
      happily
                                                            happy
                        fish
                                          fish
                                                             fish
      fishing
      better
                        better
                                           better
                                                             bet
```