

```
#Defining Common Prefix & Suffix lists:
PREFIXES = ['un', 're', 'dis', 'in', 'im', 'ad']
SUFFIXES = ['ing', 'ed', 'es', 'ly', 'ness', 'ment', 'er', 'est', 'ful']
```

```
def morphological_parsing(word):
    while True:
        original_word = word
        for prefix in PREFIXES:
            if word.startswith(prefix):
                word = word[len(prefix):]
                break
        if word == original_word:
            break

    while True:
        original_word = word
        for suffix in SUFFIXES:
            if word.endswith(suffix):
                word = word[:-len(suffix)]
                break
        if word == original_word:
            break

    return word
```

```
word = input("Enter word:")
root_word = morphological_parsing(word)

if(word == root_word):
    print(f"The given word has no suffix and prefix")
else:
    print(f"the Root Word from give word is {root_word}")
```

↩ Enter word:unsuccessful
the Root Word from give word is success

```
from nltk.stem import SnowballStemmer

stemmer = SnowballStemmer("english")
word = input("Enter a word:")
root_word = stemmer.stem(word)

print(f"The Root word from given word is:{root_word}")
```

↩ Enter a word:unsuccessful
The Root word from given word is:unsuccess

```
from nltk.stem import PorterStemmer

ps = PorterStemmer()
```

```
word = input("Enter a word:")  
root_word = ps.stem(word)
```

```
print(root_word)
```



Enter a word:unsuccessful
unsuccess