

Program :

```
import nltk
nltk.download('stopwords')
nltk.download('punkt')
nltk.download('punkt_tab')
from nltk.corpus import stopwords
from nltk.tokenize import word_tokenize
from nltk.stem import PorterStemmer, SnowballStemmer, LancasterStemmer,
RegexStemmer

nltk.download('stopwords')
nltk.download('punkt')

text = """The product quality is very good and I am extremely happy with the service. The
delivery was late, but the customer support was helpful. Overall the experience was
positive and I would recommend this company."""

stop_words = set(stopwords.words('english'))

words = [w for w in word_tokenize(text.lower()) if w.isalpha() and w not in stop_words]

print("Words after stop removal:\n", words)

porter = PorterStemmer()
snowball = SnowballStemmer("english")
lancaster = LancasterStemmer()
regex = RegexStemmer('ing$|ed$|ly$|es$|s$')

print("\nPorter Stemmer:", [porter.stem(w) for w in words])
print("\nSnowball Stemmer:", [snowball.stem(w) for w in words])
print("\nLancaster Stemmer:", [lancaster.stem(w) for w in words])
print("\nRegex Stemmer:", [regex.stem(w) for w in words])
```

Output :

Words after stop removal:

['product', 'quality', 'good', 'extremely', 'happy', 'service', 'delivery', 'late', 'customer', 'support', 'helpful', 'overall', 'experience', 'positive', 'would', 'recommend', 'company']

Porter Stemmer: ['product', 'qualiti', 'good', 'extrem', 'happi', 'servic', 'deliveri', 'late', 'custom', 'support', 'help', 'overal', 'experi', 'posit', 'would', 'recommend', 'compani']

Snowball Stemmer: ['product', 'qualiti', 'good', 'extrem', 'happi', 'servic', 'deliveri', 'late', 'custom', 'support', 'help', 'overal', 'experi', 'posit', 'would', 'recommend', 'compani']

Lancaster Stemmer: ['produc', 'qual', 'good', 'extrem', 'happy', 'serv', 'delivery', 'lat', 'custom', 'support', 'help', 'overal', 'experi', 'posit', 'would', 'recommend', 'company']

Regex Stemmer: ['product', 'quality', 'good', 'extreme', 'happy', 'service', 'delivery', 'late', 'customer', 'support', 'helpful', 'overall', 'experience', 'positive', 'would', 'recommend', 'company']