Step 1 :- Import Libraries

```
import nltk
from nltk.tokenize import word_tokenize
from nltk.stem import PorterStemmer,WordNetLemmatizer
```

Step 2 :- Download Libraries

```
nltk.download('punkt')
nltk.download('wordnet')
nltk.download('omw-1.4')
```

```
[nltk_data] Downloading package punkt to /Users/joshua/nltk_data...
[nltk_data]   Package punkt is already up-to-date!
[nltk_data] Downloading package wordnet to /Users/joshua/nltk_data...
[nltk_data]   Package wordnet is already up-to-date!
[nltk_data] Downloading package omw-1.4 to /Users/joshua/nltk_data...
[nltk_data]   Package omw-1.4 is already up-to-date!
True
```

Step 3 :- Function for Stem Words

```
def Stem_words(words):
    Stemmer = PorterStemmer()
    return [Stemmer.stem(word) for word in words]
```

Step 4 :- Function for Lemmatize Words

```
def Lemmatized_Words(words):
    Lemmatizer = WordNetLemmatizer()
    return [Lemmatizer.lemmatize(word,pos='n') for word in words]
```

Step 5 :- Input Text

```
Text = "Cry is Crying When are you Studying" # Any Text 😂
```

```
Text
```

```
'Cry is Crying When are you Studying'
```

Step 6 :- Tokenization

```
Token = word_tokenize(Text)
```

```
Token
```

```
['Cry', 'is', 'Crying', 'When', 'are', 'you', 'Studying']
```

Step 7 :- Calling the Stem_Words Function

```
Stemmed_Words = Stem_words(Token)
```

```
Stemmed_Words
```

```
['cri', 'is', 'cri', 'when', 'are', 'you', 'studi']
```

Step 8 :- Calling the Lemmatized_Words Function

```
Lammatized_Words = Lemmatized_Words(Token)
```

```
Lammatized_Words
```

```
['Cry', 'is', 'Crying', 'When', 'are', 'you', 'Studying']
```

Start coding or generate with AI.

Start coding or generate with AI.