TASK NO 3:

```
import nltk
from nltk.stem.lancaster import LancasterStemmer
stemmer = LancasterStemmer()
training data = [
words = []
classes = []
documents = []
for pattern in training data:
    for word in nltk.word tokenize(pattern['sentence']):
        if word not in ignore words:
            words.append(stemmer.stem(word.lower()))
            documents.append((stemmer.stem(word.lower()),
pattern['class']))
words = sorted(list(set(words)))
classes = sorted(list([pattren["class"] for pattern in
training data]))
```