

TASK 2 STEMMING:

In [1]:

```
import nltk
from nltk.stem import PorterStemmer
stemmerporter = PorterStemmer()
stemmerporter.stem('happiness')
```

Out[1]:

'happi'

In [2]:

```
from nltk.stem import LancasterStemmer
stemmerLan = LancasterStemmer()
stemmerLan.stem("happiness")
```

Out[2]:

'happy'

In [3]:

```
from nltk.stem import RegexpStemmer
stemmerregexp = RegexpStemmer("ing")
stemmerregexp.stem('singing')
```

Out[3]:

's'

In [4]:

```
from nltk.stem import SnowballStemmer
SnowballStemmer.languages
frenchstemmer = SnowballStemmer('french')
frenchstemmer.stem('manges')
```

Out[4]:

'mang'

In [5]:

```
from nltk.stem import PorterStemmer

stemmer = PorterStemmer()
example = "A quick brown fox jumps over a lazy dog"
example = [stemmer.stem(token) for token in example.split(" ")]
print(" ".join(example))
```

A quick brown fox jump over a lazi dog

TASK 4 : LEMMATIZER

In [6]:

```
from nltk.stem import WordNetLemmatizer
lemmatizer = WordNetLemmatizer()
print(lemmatizer.lemmatize("formulae"))
```

formula

In [7]:

```
print(lemmatizer.lemmatize("better", pos = 'a'))
```

good

In [8]:

```
print(lemmatizer.lemmatize("am", pos = 'v'))
```

be

In []: