TASK 5 STEMMERS

```
In [1]:  import nltk
         from nltk.stem import porterStemmer
         stemmerporter = PorterStemmer()
         stemmerporter.stem('happiness')
```

```
---------------------------------------------------------------
ImportError                              Traceback (most recent call last)
<ipython-input-1-b4bdb7e11acf> in <module>
      1 import nltk
----> 2 from nltk.stem import porterStemmer
      3 stemmerporter = PorterStemmer()
      4 stemmerporter.stem('happiness')

ImportError: cannot import name 'porterStemmer' from 'nltk.stem' (C:\Users\Honey\Anaconda3\lib\s
ite-packages\nltk\stem\__init__.py)
```

PORTER STEMMER

```
In [2]:  import nltk
         from nltk.stem import porterStemmer
         stemmerporter = PorterStemmer()
         stemmerporter.stem('happiness')
```

```
---------------------------------------------------------------
ImportError                              Traceback (most recent call last)
<ipython-input-2-b4bdb7e11acf> in <module>
      1 import nltk
----> 2 from nltk.stem import porterStemmer
      3 stemmerporter = PorterStemmer()
      4 stemmerporter.stem('happiness')

ImportError: cannot import name 'porterStemmer' from 'nltk.stem' (C:\Users\Honey\Anaconda3\lib\s
ite-packages\nltk\stem\__init__.py)
```

```
In [3]:  import nltk
         from nltk.stem import PorterStemmer
         stemmerporter = PorterStemmer()
         stemmerporter.stem('happiness')
```
```
Out[3]:  'happi'
```

WORDS PROPERLY SEGMENTED BY PORTER STEMMER

```
In [4]:  stemmerporter.stem('breathing')
```
```
Out[4]:  'breath'
```

```
In [5]:  stemmerporter.stem('nation')
```
```
Out[5]:  'nation'
```

```
In [6]:  stemmerporter.stem('sadness')
```
```
Out[6]:  'sad'
```

```
In [7]:  stemmerporter.stem('singing')
```
```
Out[7]:  'sing'
```

```
In [8]:  stemmerporter.stem('nationalization')
```
```
Out[8]:  'nation'
```

```
In [9]:  stemmerporter.stem('visualization')
```
```
Out[9]:  'visual'
```

REGEX STEMMER

```
In [10]:  import nltk
          from nltk.stem import RegexpStemmer
          stemmerregexp = RegexpStemmer('ing')
          stemmerregexp.stem('sing')
```
```
Out[10]:  's'
```

```
In [11]:  stemmerregexp = RegexpStemmer('s')
          stemmerregexp.stem('class')
```
```
Out[11]:  'cla'
```

WORDNETLEMMATIZER

```
In [12]:  from nltk.stem import WordNetLemmatizer
```

```
In [13]:  lemmatizer = WordNetLemmatizer()
```

```
In [14]:  print(lemmatizer.lemmatize(cacti))
```

```
---------------------------------------------------------------
NameError                                Traceback (most recent call last)
<ipython-input-14-401e95845035> in <module>
----> 1 print(lemmatizer.lemmatize(cacti))

NameError: name 'cacti' is not defined
```

```
In [15]:  print(lemmatizer.lemmatize("cacti"))
```
```
cactus
```

```
In [16]:  print(lemmatizer.lemmatize("Am"))
```
```
Am
```

```
In [17]:  print(lemmatizer.lemmatize("better"))
```
```
better
```

```
In [18]:  from nltk.stem import PorterStemmer

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

```
  File "<ipython-input-18-d053747daafd>", line 5
    example= [stemmer.stem(token) from token in example.split(" ")]
                                       ^
SyntaxError: invalid syntax
```

PORTER STEMMER ON SENTANCES

```
In [19]:  from nltk.stem import PorterStemmer

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

```
In [20]:  from nltk.stem import PorterStemmer

          stemmer = PorterStemmer()
          example = "hello everyone i am Srija Parimi"
          example= [stemmer.stem(token) from token in example.split(" ")]
          print(" ".join(example))
```

```
  File "<ipython-input-20-b49397b9e625>", line 5
    example= [stemmer.stem(token) from token in example.split(" ")]
                                       ^
SyntaxError: invalid syntax
```

```
In [21]:  from nltk.stem import PorterStemmer

          stemmer = PorterStemmer()
          example = "hello everyone this is Srija Parimi "
          example= [stemmer.stem(token) for token in example.split(" ")]
          print(" ".join(example))
```
```
hello everyon thi is srija parimi
```

```
In [ ]:  from sklearn.feature_extraction.text
```