READ ME NLP HW2 adj160230

## Question #1

Command: python biagram.py <input-file>

1. python bigram.py HW2 F17 NLP6320-NLPCorpusTreebank2Parts-CorpusA-Windows.txt

Anaconda Prompt - python bigram.py HW2\_F17\_NLP6320-NLPCorpusTreebank2Parts-CorpusA-Windows.txt

(C:\Anaconda) C:\Users\Thinkpad T540P\Desktop\NLP HW2>python bigram.py HW2\_F17\_NLP6320-NLPCorpusTreebank2Parts-CorpusA-Windows.txt
Input File exists

2. Enter input test string

Example: "Richard W. Lock, retired vice president and treasurer of Owens-Illinois Inc., was named a director of this transportation"

Anaconda Prompt - python bigram.py HW2\_F17\_NLP6320-NLPCorpusTreebank2Parts-CorpusA-Windows.txt

```
(C:\Anaconda) C:\Users\Thinkpad T540P\Desktop\NLP HW2>python bigram.py HW2_F17_NLP6320-NLPCorpusTreebank2Parts-CorpusA-Windows.txt
Input File exists
Please input test string: Richard W. Lock, retired vice president and treasurer of Owens-Illinois Inc., was named a director of this transportation
```

3. Output will be displayed as follows:

- 4. Output files generated:
  - adj160230 bigram probablities.txt (gives bigram probabilities without smoothing)
  - adj160230 bigram probablities addOne.txt (gives bigram probabilities with add one smoothing)
  - adj160230\_bigram\_probablities\_goodTurning.txt (gives bigram probabilities with good)
  - adj160230\_outputPart\_1 (contains bigram counts, sentence counts)

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Question #2:

1. Command: python brills\_final.py <input-file>

## python brills\_final.py HW2\_F17\_NLP6320\_POSTaggedTrainingSet-Windows.txt

```
Anaconda Prompt - python brills_final.py HW2_F17_NLP6320_POSTaggedTrainingSet-Windows.txt

(C:\Anaconda) C:\Users\Thinkpad T540P\Desktop\NLP HW2>python brills_final.py HW2_F17_NLP6320_POSTaggedTrainingSet-Windows.txt
Input file exists
Learning Rules : Please stand by :)
Iteration : 1
Iteration : 2
Iteration : 3
```

2. Enter input test string (POS tagged senetence)

Example: "The\_DT president\_NN wants\_VBZ to\_TO control\_VB the\_DT board\_NN 's\_POS control\_NN"

```
Enter test string : The_DT president_NN wants_VBZ to_TO control_VB the_DT board_NN 's_POS control_NN
```

3. output:

```
Time required to learn: 172.58 seconds

Enter test string: The_DT president_NN wants_VBZ to_TO control_VB the_DT board_NN 's_POS control_NN Most Probable Error: 1

Most Probable Error Percentage: 0.01 %

Error: 0

Error Percentage: 0.0 %
```

- 4. output files:
  - adj160230\_brills\_output.txt