## **CSE 7320 A11 NLTK 1**

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## Part One: Code

```
import nltk
1
2
3
    nltk.download('punkt')
    nltk.download('averaged_perceptron_tagger')
4
5
    part_one = "Mike is a cowboy living in Dallas. Although he is a cowboy, he is not
6
    part_two = " He doesn't like beer. He enjoys ice water."
7
    part_three = " The colder the water is, the more he enjoys it. "
8
    part_four = "When Mike was a child, he stored water in a cup and put it outside to
9
    part_five = " What's more, Mike also enjoys surfing on the ice when winter comes."
10
    part_six = " In my opinion, Mike is the most interesting cowboy in the world."
11
12
    string = part_one + part_two + part_three + part_four + part_five + part_six
13
14
    for sentence in nltk.sent_tokenize(string):
15
        print(sentence, "\n")
16
        # print(nltk.word_tokenize(sentence))
17
        tag_text = nltk.pos_tag(nltk.word_tokenize(sentence))
18
        print(tag_text, "\n")
19
```

## **Part Two: Result**

```
Mike is a cowboy living in Dallas.
[('Mike', 'NNP'), ('is', 'VBZ'), ('a', 'DT'), ('cowboy', 'NN'), ('living', 'NN'), ('in', 'IN'), ('Dallas', 'NNP'), ('.', '.'
)]
Although he is a cowboy, he is not like other cowboys.
[('Although', 'IN'), ('he', 'PRP'), ('is', 'VBZ'), ('a', 'DT'), ('cowboy', 'NN'), (',', ','), ('he', 'PRP'), ('is', 'VBZ'), ('not', 'RB'), ('like', 'IN'), ('other', 'JJ'), ('cowboys', 'NNS'), ('.', '.')]
He doesn't like beer.
[('He', 'PRP'), ('does', 'VBZ'), ("n't", 'RB'), ('like', 'VB'), ('beer', 'NN'), ('.', '.')]
He enjoys ice water.
[('He', 'PRP'), ('enjoys', 'VBZ'), ('ice', 'JJ'), ('water', 'NN'), ('.', '.')]
The colder the water is, the more he enjoys it.
[('The', 'DT'), ('colder', 'NN'), ('the', 'DT'), ('water', 'NN'), ('is', 'VBZ'), (',', ','), ('the', 'DT'), ('more', 'RBR'), ('he', 'PRP'), ('enjoys', 'VBZ'), ('it', 'PRP'), ('.', '.')]
When Mike was a child, he stored water in a cup and put it outside to ice the water.
[('When', 'WRB'), ('Mike', 'NNP'), ('was', 'VBD'), ('a', 'DT'), ('child', 'NN'), (',', ','), ('he', 'PRP'), ('stored', 'VBD'), ('water', 'NN'), ('in', 'IN'), ('a', 'DT'), ('cup', 'NN'), ('and', 'CC'), ('put', 'VB'), ('it', 'PRP'), ('outside', 'IN'), ('to', 'TO'), ('ice', 'VB'), ('the', 'DT'), ('water', 'NN'), ('.', '.')]
What's more, Mike also enjoys surfing on the ice when winter comes.
[('What', 'WP'), ("'s", 'VBZ'), ('more', 'JJR'), (',', ','), ('Mike', 'NNP'), ('also', 'RB'), ('enjoys', 'VBZ'), ('surfing', 'VBG'), ('on', 'IN'), ('the', 'DT'), ('ice', 'NN'), ('when', 'WRB'), ('winter', 'NN'), ('comes', 'VBZ'), ('.', '.')]
In my opinion, Mike is the most interesting cowboy in the world.
[('In', 'IN'), ('my', 'PRP$'), ('opinion', 'NN'), (',', ','), ('Mike', 'NNP'), ('is', 'VBZ'), ('the', 'DT'), ('most', 'RBS'), ('interesting', 'JJ'), ('cowboy', 'NN'), ('in', 'IN'), ('the', 'DT'), ('world', 'NN'), ('.', '.')]
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**Output Capture**