START OF QUIZ
Student ID:
30425177,He,Hao Chen

Question 1

Topic: Lecture 1
Source: Lecture 1

In class, we talked about how .isdigit() is insufficient for determining whether we can convert a string to a float. Write a short function "isfloat" that determines whether a provided string is a valid floating point number. (2)

Question 2

Topic: Lecture 1
Source: Lecture 1

Vowels are often used as a proxy for syllables in words (it's not a perfect correspondence, but it's not bad). Write a function that counts the vowels in a word, without using a loop, using only the tools we went over in Lecture 1 (list comprehension counts as a loop). (2)

Question 3

Topic: Lecture 2
Source: Lecture 2

Why is it important to know when a corpus was constructed, and who constructed it? (1)

Question 4

Topic: Lecture 3
Source: Lecture 3

Describe the concept of the ”Minimum viable product”, and how it relates to using lexicons. (1)

Question 5

Topic: Lecture 3
Source: Lecture 3

Imagine that we have a parallel corpus (ie, a corpus containing sentences in two languages), and we want to extract a bilingual lexicon. What are some simple steps we could do to identify words that could be translations of each other? (2)

Question 6

Topic: Lecture 4
Source: Lecture 4

We discussed two alternative methods for noise reduction: removing all words above a certain frequency, or only removing those from a curated lexicon. Name an advantage to both. (1)

Question 7

Topic: Lecture 2
Source: Lecture 2

How does Zipf's law relate to Hapax Legomena? (1)

Question 8

Topic: Lecture 4
Source: Lecture 4

How would we sort a dictionary alphabetically by the reverse of its keys (assuming the keys are strings)? Write a short piece of code, and briefly explain your logic. (1)

Question 9

Topic: Coding
Source: Coding

Write a function that determines whether the last consonant of the root of a verb has been doubled. For example: win -> winning. The function can take any string. What kind of error testing should you perform? (Hint - consonant doubling only occurs in certain environments). (3)

END OF QUIZ