Answer one of the following questions for this assignment. Your solution should be between 50 and 100 words. Place your questions in the “Answer” section below. Be certain to number your answers with the same number that is associated with the question.

1. What are two ways you can safely look up a key in a dictionary?
2. What are the implications of a shared reference to immutable and mutable values?
3. Why should you limit how deeply you nest sequences?
4. Name three reasons you might use a tuple instead of a list.
5. How are lists and tuples similar and different?

ANSWERS:

1. Index, or keys
2. Shared reference will change all references if the are mutable, inmutable references are not allowed to be changed
3. Nested sequences can be tricky to code and debug if they are too deep, and there could also be performance problem
4. They are imutable, they are faster, they can be different types
5. Lists are mutable, tuples are not, you can access the elements via an index or slicing