PYTHON LISTS, SETS, TUPLES, AND DICTIONARIES

Part 1: Objective Type Quiz

1. Which of the following is an ordered collection of elements where duplicates are allowed?
   a) List ⟵ (circled)
   b) Set
   c) Tuple
   d) Dictionary

2. Which data structure uses curly braces {} and consists of key-value pairs?
   a) List
   b) Set
   c) Tuple
   d) Dictionary ⟵ (circled)

3. In Python, which data structure is immutable?
   a) List
   b) Set
   c) Tuple ⟵ (circled)
   d) Dictionary

4. Which data structure is best suited for storing unique elements?
   a) List
   b) Set ⟵ (circled)
   c) Tuple
   d) Dictionary

5. Which data structure uses square brackets [] to store elements?
   a) List ⟵ (circled)
   b) Set
   c) Tuple
   d) Dictionary

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Part 2: Non-Objective Type Quiz

6. Describe a real-world scenario where you would prefer using a tuple over other data structures like lists or dictionaries.

7. Explain the difference between a set and a dictionary in Python, and provide an example where each would be most appropriate to use.

8. Discuss the advantages and disadvantages of using a list compared to a set when dealing with a large dataset.

9. Illustrate a situation where you might need to convert a list into a dictionary and vice versa, highlighting the challenges and considerations involved.

10. Reflect on how the choice of data structure impacts the efficiency and readability of your code, using examples from your own programming experiences.

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Want to Become a Python Expert?

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- About 10 hours of HD video
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- Watch it online or download and watch it offline
- One-on-one training with me 2-4 times a week

Sincerely,

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