Tuples

- 1. How do you create an empty tuple?
- 2. How do you create a tuple with a single element?
- 3. How do you access elements in a tuple?
- 4. How do you check the length of a tuple?
- 5. How do you check if an element exists in a tuple?
- 6. How can you concatenate two tuples?
- 7. How do you convert a list into a tuple?
- 8. How do you access a slice of a tuple (e.g., the first three elements)?
- 9. How do you unpack values from a tuple into variables?
- 10. How do you reverse a tuple?
- 11. How do you iterate over a tuple?
- 12. How do you convert a tuple into a string?
- 13. How do you find the index of an element in a tuple?
- 14. How can you count occurrences of a specific element in a tuple?
- 15. How can you use tuples as dictionary keys?
- 16. How do you sort a list of tuples based on the second element in each tuple?
- 17. How do you merge multiple tuples into one?
- 18. How do you nest tuples within another tuple, and how do you access nested elements?
- 19. How would you swap values in two variables using a tuple?
- 20. How do you check if a tuple contains other tuples as elements?
- 21. How do you find the length of the longest tuple in a list of tuples?
- 22. How do you perform element-wise addition of two tuples of the same length?
- 23. How do you handle a tuple of unknown size when unpacking into variables?
- 24. How would you implement a tuple as an immutable list and handle operations like appending?
- 25. How can you use a generator to create a tuple?