Python List and List Methods - Mentor Style Questions

- 1. What is a list in Python?
- 2. How do you create an empty list?
- 3. How do you initialize a list with elements?
- 4. How do you access the first element of a list?
- 5. How do you access the last element of a list?
- 6. How can you update an element in a list?
- 7. How do you append an element to a list?
- 8. What is the difference between append() and extend()?
- 9. How do you insert an element at a specific index?
- 10. How do you remove an element from a list using remove()?
- 11. How do you remove an element from a list using pop()?
- 12. What is the difference between pop() and remove()?
- 13. How do you delete an element from a list using del?
- 14. How do you find the length of a list?
- 15. How do you check if an element exists in a list?
- 16. How do you loop through a list using a for loop?
- 17. How do you loop through a list using a while loop?
- 18. How do you use list comprehension to create a new list?
- 19. What is the syntax for list comprehension with a condition?
- 20. How do you reverse a list?
- 21. How do you sort a list in ascending order?
- 22. How do you sort a list in descending order?
- 23. What is the difference between sort() and sorted()?
- 24. How do you count occurrences of an element in a list?

- 25. How do you find the index of an element in a list?
- 26. What happens if you try to access an index out of range?
- 27. How can you concatenate two lists?
- 28. How can you replicate a list?
- 29. How do you slice a list?
- 30. How do you copy a list without referencing the original?
- 31. How do you clear all elements from a list?
- 32. What are nested lists?
- 33. How do you access elements in a nested list?
- 34. How do you flatten a nested list?
- 35. What is the use of the list() constructor?
- 36. What are the common errors with lists in Python?
- 37. How do you convert a string to a list of characters?
- 38. How do you convert a list of strings into a single string?
- 39. How do you get the minimum and maximum values from a list?
- 40. How do you use the enumerate() function with a list?