#### **Callbacks**

- 1. What is a callback function in JavaScript?
- 2. Which of the following is an example of a callback?
- 3. What is the main reason to use callback functions?
- 4. Which of the following is NOT a common use case for callbacks?
- 5. In this code, what will be logged to the console?
- 6. Synchronous vs Asynchronous
- 7. What is the difference between synchronous and asynchronous code?
- 8. What method in JavaScript allows for delayed execution of code?
- 9. Which of the following will delay execution by 2 seconds?
- 10. What is an example of an asynchronous operation in JavaScript?
- 11. What output is produced by the following code?

#### **Promises**

- 12. What does a JavaScript Promise represent?
- 11. What are the possible states of a promise?
- 12. How do you create a new Promise?
- 13. What method is used to handle a successful promise resolution?
- 14. Which method handles promise rejection?
- 15. What will the following code output?
- 16. What does .finally() do in a promise chain?
- 17. Which of these is NOT a reason to use promises?
- 18. How can you wait for multiple promises to resolve?
- 19. What does Promise.allSettled() do?

## **Async and Await**

- 20. What does the async keyword do to a function?
- 21. How do you pause an async function until a promise is resolved?
- 22. What will be the output of the following code?

- 23. Which of the following is NOT true about async functions?
- 24. What is required to use await?
- 25. What will this code output?
- 26. What will be the output of this code?
- 27. What does await do in an async function?
- 28. What will be the output of this code?
- 29. What is a common advantage of using async/await over promise chaining?
- 30. Which of these is a correct way to handle errors in async/await?
- 31. How can you delay code execution using async/await?
- 32. What will the following code output?
- 33. What happens if you don't handle a rejected promise in async/await?
- 34. Which statement is correct about async functions?

# **Chaining and Error Handling in Promises**

- 35. What does .catch() do in a promise chain?
- 36. What does .finally() do?
- 37. Which code correctly handles an error with async/await?
- 38. What happens if an error occurs in an async function without try...catch?
- 39. Which of the following is NOT true about promise chaining?
- 40. What will the following code output?
- 41. What is the purpose of returning a promise inside .then()?

## **Advanced Promise Usage**

- 42. Which of these runs promises in parallel?
- 43. What will Promise.any() do?
- 44. What does Promise.race() do?
- 45. How would you handle multiple promises to get an array of results, handling each error individually?
- 46. What will happen with the following code?

# Mixing Callbacks, Promises, and Async/Await

- 47. Which is true when mixing async/await with promise chains?
- 48. How would you refactor this callback-based code to use async/await?
- 49. What would you add to ensure this async function is handled as a promise?
- 50. Why would you convert a callback function to use async/await?
- 51. In async/await, what will happen if an error occurs?
- 52. What is the purpose of using Promise.reject()?
- 53. What does Promise.resolve().then() do?
- 54. If an async function has multiple await statements, how are they executed?
- 55. How would you write an async function that catches errors only when calling it?
- 56. What is the main difference between Promise.all() and Promise.allSettled()?
- 57. Which of the following is a correct way to create a promise that resolves after a delay?
- 58. How do Promise.all() and Promise.race() differ?
- 59. What will be the output of this code?