🟢 Basic (Beginner) Function Questions

1. Write a function that returns the square of a number.

2. Write a function to check whether a number is even or odd.

3. Create a function that takes a string and returns it in uppercase.

4. Write a function that adds two numbers and returns the result.

5. Define a function that takes a list and returns the sum of its elements.

🟡 Intermediate Function Questions

6. Write a function that returns the factorial of a number using recursion.

7. Create a function that checks if a string is a palindrome.

8. Write a function to count the number of vowels in a given string.

9. Define a function that returns the second largest number from a list.

10. Write a function that merges two dictionaries.

🔴 Advanced Function Questions

11. Write a decorator function that logs the time a function takes to execute.

12. Create a function using *args and **kwargs to accept variable arguments.

13. Define a recursive function to generate the nth Fibonacci number.

14. Write a lambda function inside another function to filter even numbers from a list.

15. Create a function with default arguments and keyword-only parameters.