Practice_set 08

Python Notes by Wahab

Practice Problems

1. Create a function named `greet_user` that takes a name as an argument and prints a greeting message: "Hello, [name]!".
2. Write a function called sum_two_numbers that takes two numbers as arguments and returns their sum.
3. Define a function named is_even that takes an integer as an argument and returns True if the number is even, and False otherwise.
4. Create a function called calculate_factorial that takes a non-negative integer and returns its factorial. If the input is less than 0, return None.
5. Write a function named is_palindrome that checks if a given string is a palindrome. The function should return True if the string reads the same forwards and backwards, ignoring case and spaces.
6. Create a function called generate_fibonacci that takes a number n as an argument and returns a list of the first n numbers in the Fibonacci sequence.
7. Define a function named concatenate_strings that takes multiple string arguments using *args and returns a single string that is the concatenation of all the strings.
8. Create a function called display_info that accepts any number of keyword arguments using **kwargs and prints the key-value pairs.
9. Create a function combine_args_kwargs that takes both positional (*args) and keyword arguments (**kwargs). The function should return a tuple where the first element is the tuple of positional arguments and the second element is the dictionary of keyword arguments.