

Python Assignment based on Functions(String and List)

1. Write a function that takes two integers and returns their sum.
2. Create a function that takes a number and returns `true` if the number is even and `false` if it's odd.
3. Write a function that finds the maximum of three numbers.
4. Implement a function that calculates the factorial of a number.
5. Create a function that accepts two strings and returns the longer one.
6. Write a function that takes a string and returns the number of vowels in it.
7. Create a function to reverse a given string.
8. Write a function that checks if a given string is a palindrome (reads the same forwards and backwards).
9. Implement a function that counts the number of words in a sentence.
10. Create a function that replaces all spaces in a string with underscores (`_`).
11. Write a function that takes a list of integers and returns the sum of all elements.
12. Create a function that finds the largest element in a list.
13. Write a function that takes a list and returns a new list with only the even numbers.
14. Implement a function that reverses the elements of a list.
15. Create a function that merges two lists and returns the combined list.