File Handling

- 1. Write a recursive function to find the factorial of a given number.
- 2. Write a recursive function to compute the Fibonacci sequence.
- 3. Write a recursive function to find the GCD of two numbers.
- 4. Write a recursive function to compute the power of a number.
- 5. Write a recursive function to reverse a string.
- 6. Write a recursive function to find the sum of all the elements in a list.
- 7. Write a recursive function to flatten a nested list.
- 8. Write a recursive function to find the maximum element in a list.
- 9. Write a recursive function to check if a given string is a palindrome.
- 10. Write a recursive function to find the length of a string.
- 11. Write a recursive function to convert a decimal number to binary.
- 12. Write a recursive function to merge two sorted lists.
- 13. Write a recursive function to perform binary search on a sorted list.
- 14. Write a recursive function to find the sum of the digits of a given number.
- 15. Write a recursive function to find the greatest common divisor (GCD) of a list of numbers.
- 16. Write a recursive function to count the number of occurrences of a given element in a list.
- 17. Write a recursive function to perform a depth-first search on a graph.
- 18. Write a recursive function to check if a given string is a valid palindrome.
- 19. Write a recursive function to find the minimum element in a list.
- 20. Write a recursive function to generate all possible permutations of a given string.