Python Programs: Functions, Recursion, and Lambda (Titles Only)

Function-based Programs

1. Calculate BMI

2. Convert Celsius to Fahrenheit

3. Check Prime Number

4. Factorial using function

5. Find maximum in list

6. Count vowels

7. Palindrome check

8. Sum of digits

9. Fibonacci series (loop)

10. Simple calculator

Recursion-based Programs

11. Factorial using recursion

12. Fibonacci using recursion

13. Sum of n numbers using recursion

14. Count digits using recursion

15. Power of number using recursion

16. GCD using recursion

17. Sum of list using recursion

18. Reverse string using recursion

19. Check palindrome using recursion

20. Decimal to binary using recursion

Lambda Function-based Programs

21. Square of a number using lambda

22. Even or odd using lambda

23. Maximum of two numbers using lambda

24. Sort list of tuples by second element using lambda

25. Filter even numbers using lambda and filter()

26. Map square of numbers using lambda and map()

27. Reduce to sum using lambda and reduce()

28. Convert to uppercase using lambda and map()

29. Check positive number using lambda

30. Multiply two numbers using lambda

31. EMI calculator using lambda

32. Leap year check using lambda

33. Age group classifier using lambda

34. Grading system using lambda

35. Simple interest using lambda

36. Area of circle using lambda

37. Perimeter of rectangle using lambda

38. Reverse string using lambda

39. Temperature conversion (F to C) using lambda

40. FizzBuzz using lambda