- 1. What is a lambda function in Python?
- 2. What is the syntax for defining a lambda function?
- 3. Can a lambda function have multiple parameters?
- 4. What is the difference between a lambda function and regular function?
- 5. Can a lambda function contain multiple expressions?
- 6. When is it appropriate to use a lambda function instead of a regular function?
- 7. How do you use the map() function with a lambda function?
- 8. What is the purpose of the filter() function when used with a lambda function?
- 9. Can you use a lambda function to calculate the sum of elements in a list?
- 10. How do you create a lambda function to find the square of a number?
- 11. How do you use lambda functions with the sorted() function to sort dictionaries?
- 12.quare of Numbers:
- 13. Write a program that takes a list of numbers and uses a lambda function to calculate the square of each number.
- 14. Create a program that filters out the odd numbers from a list using a lambda function with the filter() function.
- 15. Write a program that sorts a list of tuples based on the second element of each tuple using a lambda function with the sorted() function.
- 16.Develop a program that calculates the sum of elements in a list using a lambda function with the reduce() function from the functools module. [Note: The reduce() function is used when you want to perform a cumulative operation on a sequence of elements in order to reduce that sequence to a single value. It's particularly useful when you have a series of values and you want to combine them in a specific way to obtain a final result]
- 17. Create a program that finds the maximum element in a list using a lambda function with the max() function.
- 18. Write a program that takes a list of strings and uses a lambda function to reverse each string.
- 19. Create a program that sorts a list of strings based on their length using a lambda function with the sorted() function.

- 20. Develop a program that counts the number of vowels in a list of words using a lambda function.
- 21. Write a program that takes two numbers as input, a base and an exponent, and calculates the exponential using a lambda function.
- 22. Create a program that uses a lambda function to filter out even numbers from a given list.
- 23. Write a program that sorts a list of dictionaries based on a specific key using a lambda function with the sorted() function.
- 24. Develop a program that calculates the average of elements in a list using a lambda function with the sum() function.
- 25. Create a program that sorts a list of strings based on their last character using a lambda function with the sorted() function.
- 26. Write a program that checks whether a list of numbers are prime or not using a lambda function.
- 27. Develop a program that sorts a list of lists based on the length of their sublists using a lambda function with the sorted() function.
- 28.Create a program that finds the smallest element in a list using a lambda function with the min() function.
- 29. Write a program that sorts a list of strings based on the number of vowels they contain using a lambda function with the sorted() function.
- 30. Develop a program that takes a list of pairs (base, exponent) and calculates the power of each pair using a lambda function.
- 31.Create a program that sorts a list of integers based on the number of digits using a lambda function with the sorted() function.
- 32. Write a program that uses a lambda function to filter out palindromes from a given list of strings.