

Lab Report-03:

- 1. String Reverse:** Write a Python function to reverse a given string and return the reversed string.
- 2. Type Conversion:** Given a list of integers, write a Python program to convert each element of the list to a string.
- 3. Temperature Converter:** Write a Python program that converts a temperature in Celsius to Fahrenheit. Take the Celsius temperature as input from the user.
- 4. String Palindrome:** Write a Python function to check if a given string is a palindrome or not.
- 5. String Reversal with Slicing:** Write a Python function to reverse a given string using slicing.
- 6. Grades Classification:** Write a Python program that takes a student's percentage as input and prints their corresponding grade according to the following criteria: – 90% or above: A+ – 80-89%: A – 70-79%: B – 60-69%: C – Below 60%: Fail.
- 7. Table of a Number:** Write a Python program using a for loop to print the multiplication table of a given number N.
- 8. Count Digits in a Number:** Write a Python program using a while loop to count the number of digits in a given integer N.
- 9. Fibonacci Sequence:** Write a Python program using a for loop to generate the Fibonacci sequence up to a given limit N.
- 10. Sum of Even Numbers:** Write a Python program using a while loop to calculate the sum of all even numbers between 1 and N, where N is taken as input from the user.
- 11. Print Patterns:** Write a Python program using nested for loops to print various patterns, such as a right-angled triangle, an inverted right-angled triangle, and so on.
- 12. Prime Number Checker:** Write a Python program using a while loop to check if a given number N is prime or not.
- 13. List Manipulation:** Given a list of integers, write a Python program using a for loop to find the sum, average, maximum, and minimum values in the list.
- 14. Reverse String:** Write a Python program using a while loop to reverse a given string.
- 15. List Sum:** Write a Python program to find the sum of all elements in a given list of integers.
- 16. List Average:** Write a Python program to calculate the average of all elements in a given list of integers.
- 17. List Max and Min:** Write a Python program to find the maximum and minimum values in a given list of integers.
- 18. List Sorting:** Write a Python program to sort a list of integers in ascending order.
- 19. List Filtering:** Given a list of integers, write a Python program to create a new list that contains only the even numbers from the original list.
- 20. List Reversal:** Write a Python program to reverse a given list without using any built-in functions.
- 21. List Manipulation:** Given two lists of integers, write a Python program to create a new list that contains elements common to both lists.
- 22. List Element Count:** Write a Python program to count the occurrences of a specific element in a given list.
- 23. List Duplicates Removal:** Write a Python program to remove duplicates from a given list while preserving the order of the elements.
- 24. List Comprehension:** Given a list of integers, write a Python program to create a new list that contains the squares of the elements using list comprehension.

