ASSIGNMENT NO. 4

SUBJECT: COMPUTER SCIENCE CLASS-XI Oct,2025

List Manipulation, Tuples

Q1.Write a program to input 10 integers in a list and print the sum of even numbers only.

Q2.Given the list:

nums = [2, 4, 6, 8, 10, 12, 14]

Write slicing expressions to obtain:

- a) [6, 8, 10]
- b) [2, 4, 6]
- c) [10, 12, 14]
- d) [14, 12, 10]

Q3. Write a program to reverse a list without using the reverse() function.

Q4.What will be the output?

x = [10, 20, 30, 40]

print(x[1:3])

print(x[-3:])

print(x[::-1])

Q5.Write a program that creates a tuple of 5 strings entered by the user, and then displays the longest string.

Q6.Given:

colors = ("red", "green", "blue", "yellow")

Write Python statements to:

- a) Display the length of the tuple
- b) Access "green" using negative indexing
- c) Slice and display ("green", "blue")

Q7. Write a program to count how many times a given element appears in a list.

Q8. What will be the output?

L = [1, 2, 3]

M = [4, 5]

print(L + M)

print(L * 3)

Q9. Write a program to input a list of numbers and create a new list with squares of these numbers.

O10.Given:

marks = [85, 90, 75, 60, 95]

Write Python expressions using list functions to find:

- a) Maximum marks
- b) Minimum marks
- c) Sorted list in descending order

Q11. Write a program to check whether a given element exists in a tuple or not.

Q12. Predict the output:

T = (1, 2, 3, 4, 5)

print(T[1:4])

print(T[-1])

print(len(T))

Q13. Write a program to swap the first and last elements of a list.

Q14. Write a program that reads a tuple of integers and prints the sum of all odd numbers in it.

Q15.Differentiate between:

- a) append() and extend() with an example.
- b) sort() and sorted() with an example.