Python Practice Exercises - Learning Repository

This document contains a collection of Python practice exercises, organized into categories for easy understanding. These exercises are designed to strengthen your Python programming skills by covering basic concepts of input/output, loops, conditionals, string manipulation, lists, and functions.

# Basic Programs

1. Enter number from user and convert meter to centimeter.

2. Write a program to calculate area of triangle.

3. Write a program to enter a number from the user and check whether it is divisible by 7 or not.

4. Write a program to enter nth number from the user and print sum of square of number using while loop.

5. Print odd and even numbers series using loop (for/while loop).

6. Accept number from user and check whether it is prime or not.

# String Programs

1. Accept string from user and reverse the string.

2. Write a program that accepts a sentence and calculate the number of upper case letters and lower case letters.

Example Input: Hello world!

Output:

UPPER CASE 1

LOWER CASE 9

# List Programs

1. Write a program to accept n integer numbers in List, calculate and display the sum of elements from the list.

2. Sort the elements from the list in ascending order.

3. Accept n integer elements in list and display all elements from the list using while loop.

# Function Programs

1. Write a program that calculates the squares of numbers ranging from one to 11 using a user-defined function.

2. Write a program that can multiply all the numbers in a list using an inbuilt function (passing parameter to function).

3. Create a function named water\_supply that will calculate how many liters a given person would need to drink in their whole life. The function takes two arguments: age (life expectancy for that person) and amount (daily intake of water). Return the number of liters calculated as: age \* 365 \* amount. The default parameter values are age=75 and amount=2.