**1D String Exercises**

1. Write a C program to find length of a string.
2. Write a C program to copy one string to another string.
3. Write a C program to concatenate two strings.
4. Write a C program to compare two strings.
5. Write a C program to convert lowercase string to uppercase.
6. Write a C program to find total number of alphabets, digits or special character in a string.
7. Write a C program to count total number of words in a string.
8. Write a C Program to Search and Replace a word with a Specific Word.
9. Write a C program to check whether a string is palindrome or not.

**2D String Exercises**

1. Write a C program to take 10 students name as input and print it.
2. Write a C program to take 10 students name as input and print only those names, which are palindrome.
3. Write a C program to make a 2D string from a 1D string.
4. Write a C program to take 10 students name as input and print the names in uppercase.

**Function and Recursion Exercises**

1. Write a program in C to check if a given number is even or odd using the function.
2. Write a program in C to get the largest element of an array using the function.
3. Write a program in C to find the square of any number using the function.
4. Write a C program to print all natural numbers between 1 to n using recursion.
5. Write a C program to print all even or odd numbers in given range using recursion.
6. Write a C program to find sum of all natural numbers between 1 to n using recursion.
7. Write a C program to find sum of all even or odd numbers in given range using recursion.
8. Write a C program to check whether a number is palindrome or not using recursion.
9. Write a C program to find factorial of any number using recursion.
10. Write a C program to generate nth Fibonacci term using recursion.
11. Write a program in C to swap two numbers using a function.

**Pointer Exercises**

1. Write a program in C to find the maximum number between two numbers using a pointer.
2. Write a program in C to swap two numbers using a function and pointer.
3. Write a program in C to find the factorial of a given number using pointers.
4. Write a program in C to find the summation of all natural number up to a given number using pointers.
5. Write a C program to input and print array elements using pointer.

**Structure Exercises**

1. Create a structure called "Student" with members name, age, and total marks. Write a C program to input data for two students, display their information, and find the average of total marks.
2. Create a structure named Book to store book details like title, author, and price. Write a C program to input details for three books, find the most expensive and the lowest priced books, and display their information.
3. Create a structure named "Employee" to store employee details such as employee ID, name, and salary. Write a program to input data for three employees, find the highest salary employee, and display their information.
4. Design a structure named "Car" to store details like car ID, model, and rental rate per day. Write a C program to input data for three cars, calculate the total rental cost for a specified number of days, and display the results.