List of function and recursion programming exercises

- Write a C program to find cube of any number using function.

- Write a C program to find diameter, circumference and area of circle using functions.

- Write a C program to find maximum and minimum between two numbers using functions.

- Write a C program to check whether a number is even or odd using functions.

- Write a C program to check whether a number is prime, Armstrong or perfect number using functions.

- Write a C program to find all prime numbers between given interval using functions.

- Write a C program to print all strong numbers between given interval using functions.

- Write a C program to print all Armstrong numbers between given interval using functions.

- Write a C program to print all perfect numbers between given interval using functions.

- Write a C program to find power of any number using recursion.

- Write a C program to print all natural numbers between 1 to n using recursion.

- Write a C program to print all even or odd numbers in given range using recursion.

- Write a C program to find sum of all natural numbers between 1 to n using recursion.

- Write a C program to find sum of all even or odd numbers in given range using recursion.

- Write a C program to find reverse of any number using recursion.

- Write a C program to check whether a number is palindrome or not using recursion.

- Write a C program to find sum of digits of a given number using recursion.

- Write a C program to find factorial of any number using recursion.

- Write a C program to generate nth Fibonacci term using recursion.

- Write a C program to find GCD (HCF) of two numbers using recursion.

- Write a C program to find LCM of two numbers using recursion.

- Write a C program to display all array elements using recursion.

- Write a C program to find sum of elements of array using recursion.

- Write a C program to find maximum and minimum elements in array using recursion.

List of pointer programming exercises

- Write a C program to create, initialize and use pointers.

- Write a C program to add two numbers using pointers.

- Write a C program to swap two numbers using pointers.

- Write a C program to input and print array elements using pointer.

- Write a C program to copy one array to another using pointers.

- Write a C program to swap two arrays using pointers.

- Write a C program to reverse an array using pointers.

- Write a C program to search an element in array using pointers.

- Write a C program to access two dimensional array using pointers.

- Write a C program to add two matrix using pointers.

- Write a C program to multiply two matrix using pointers.

- Write a C program to find length of string using pointers.

- Write a C program to copy one string to another using pointers.

- Write a C program to concatenate two strings using pointers.

- Write a C program to compare two strings using pointers.

- Write a C program to find reverse of a string using pointers.

- Write a C program to sort array using pointers.

- Write a C program to return multiple value from function using pointers.

List of file handling exercises

- Write a C program to create a file and write contents, save and close the file.

- Write a C program to read file contents and display on console.

- Write a C program to read numbers from a file and write even, odd and prime numbers to

  separate file.

- Write a C program to append content to a file.

- Write a C program to compare two files.

- Write a C program to copy contents from one file to another file.

- Write a C program to merge two file to third file.

- Write a C program to count characters, words and lines in a text file.

- Write a C program to remove a word from text file.

- Write a C program to remove specific line from a text file.

- Write a C program to remove empty lines from a text file.

- Write a C program to find occurrence of a word in a text file.

- Write a C program to count occurrences of a word in a text file.

- Write a C program to count occurrences of all words in a text file.

- Write a C program to find and replace a word in a text file.

- Write a C program to replace specific line in a text file.

- Write a C program to print source code of same program.

- Write a C program to convert uppercase to lowercase character and vice versa in a text file.

- Write a C program to find properties of a file using stat() function.

- Write a C program to check if a file or directory exists.

- Write a C program to rename a file using rename() function.

- Write a C program to list all files and sub-directories recursively.