

1. Given a number, write a program using for loop to reverse the digits of the number. For example, the number 72345 should be written as 54327.
2. Write a C program to compute the sum of the digits of a given integer.
3. Write a C program to check whether a number is a Prime number or not.
4. Write a C program to print all Prime numbers between I to N. Where N is a positive integer.
5. Write a C program to print the Fibonacci series up to n terms.
6. Write a C program to convert Binary to Octal number system.
7. Write a C program to convert Decimal to Hexadecimal number system.
8. Write a C program to convert Decimal to Binary number system.
9. Write a C program to print the following patterns using for loop.
10. Write a C program to find the GCD of two positive integers.
11. Write a c program to find out the sum of a given series.
12. Write a C program to find out the largest element of an array.
13. Write a C program to sort the given data in ascending order.
14. Write a C program to find the LCM of two positive integers.
15. Write a C program to find out the smallest element of an array.
16. Write a C program to find out the sum of diagonal elements of a matrix.
17. Write a C program to find the specific element from an array.
18. Write a C program to convert binary number to hexadecimal number.
19. Write a C program to count the frequency of each element of an array.
20. Write a C program to check whether a number is ODD or EVER using bitwise AND operator.
21. Write a C program to enter any string and check whether the string is palindrome or not.
22. Write a C program to find the length of a string without using library function.
23. Write a C program to find the factorial of a number using recursion.

24. Write a C program to convert Decimal to Binary number using recursion.
25. Write a C program to convert the string from upper case to lower case.
26. Write a C program for the concatenation of two strings without using library function.
27. Write a C program to reverse a string without using library function.
28. Write a C program for the addition and multiplication of two matrices.
29. Write a C program to print Fibonacci series up to n terms using recursive function.
30. Write a C program to sort the given data in ascending order where the array as a function argument.
31. Write a C program to swap two numbers using macro.
32. Write a C program to swap two numbers using call by reference.
33. Write a C program to find the power of any number using recursion.
34. Write a C program to store information (name, roll and marks) of five students using Structure.
35. Write a C program to find out the sum of a given series using recursive function.
36. Write a C program to reverse a string using recursive function.
37. Write a C program to find the GCD (a, b) using recursive function. Where a and b are positive integer.
38. Write a program that takes two words as input and checks if they are anagrams of each other or not- An anagram is a word that is formed by rearranging the letters of another word. You can assume the words will consist a maximum of 100 characters. For example, the words dusty and study are anagram.
39. Imagine developing an inventory system for a gift shop named "Wishee" using a C program. Create efficient structures for the system, where each item encompasses the following information:
 - ❖ stock ID (integer)
 - ❖ price (float)

- ❖ item type (integer)
- ❖ product information depending on the item type,
 - t-shirt: brand (string), size (number), design (string)
 - toy: brand (string), category (string), age limit (number)
 - card: color (string), occasion (string), design (string)

With the upcoming New Year sales at "Wishee," special discounts will be available. Various offerings will apply to a customer's total purchase, including:

- ❖ If a user purchases any item that costs between \$101 and \$200, the discount will be 5%.
- ❖ If a user purchases any item that costs between \$201 and \$400, the discount will be 10%.
- ❖ If a user purchases any item that costs more than \$400, the discount will be 25%.

Now write a program that will take an array of structure items and show the total price and the price after the discount.

40. A password is called STRONG if it holds all of the following properties:
- ❖ It has at least 8 characters.
 - ❖ It contains at least one lower case letter, and at least one upper case letter.
 - ❖ It does not contain any blank space.

Write a program that will take a password as input to a string and will print a message indicating whether it is STRONG or WEAK

Sample input: Strange

Sample output: The password is WEAK