1. Write a C program that takes two integer numbers from the user and passes them to a function. Inside the function, try to change the values of both numbers. After the function call, print the values again in main and observe whether the values changed or not.
2. Write a C program where one integer variable is passed to a function. Inside the function, double the value of that variable using call by value. Print the value before calling the function and after returning from the function.
3. Write a C program where one integer variable is passed to a function using its address. Inside the function, change the value of the variable using pointers. Print the value before calling the function and after returning from the function.
4. Write a C program that asks the user for a number and checks whether the number is even or odd using a function. The function should only return the result and should not print anything.
5. Write a C program that uses a loop to print numbers from 1 to 20. Use a function to perform the loop and call that function from main.
6. Write a C program that takes a number from the user and calculates the sum of numbers from 1 to that number using a loop inside a function.
7. Write a C program that uses a loop to print the multiplication table of a number entered by the user. The logic of printing the table should be written inside a function.
8. Write a C program that takes two numbers from the user and swaps them using call by value. Print the numbers before and after calling the function.
9. Write a C program that takes two numbers from the user and swaps them using call by reference. Print the numbers before and after calling the function.
10. Write a C program that declares a two dimensional array of size 2 by 3. Take all values from the user and print the array in matrix form using loops.
11. Write a C program that declares a two dimensional array of size 3 by 3 and calculates the sum of all elements using nested loops.
12. Write a C program that takes a two dimensional array from the user and prints only the elements of the first row using a loop.
13. Write a C program that takes a two dimensional array from the user and prints only the elements of the first column using a loop.
14. Write a C program that uses a loop to count how many even numbers are present in a two dimensional array.
15. Write a C program that passes a two dimensional array to a function and prints all its elements inside the function using loops.
16. Write a C program that passes a number to a function and prints whether the number is positive, negative, or zero. Use simple if else logic inside the function.
17. Write a C program that uses a loop to find the largest number in a one dimensional array.
18. Write a C program that uses nested loops to print a simple pattern of stars in the shape of a square.
19. Write a C program that takes marks of 5 subjects in an array and calculates the total and average using a loop and a function.
20. Write a C program that uses a function to count how many numbers between 1 and 100 are divisible by 5 using a loop.