

1. Write a C program to swap two values using pointers.
2. Write a program to calculate average of numbers between m and n using pointer.
3. Write a program in C to find the maximum number between two numbers using a pointer.
4. Write a program in C to sort an array using Pointer.
5. Write a program in C to add and subtract two numbers at run time.
6. Write a C program to store information of n number of students using structure.
7. Write a C program to add two distances (in inch-feet system) using structure.
8. Write a C program to store information of a student using structure.
9. Define a recursive & non recursive function to calculate the sum of n natural numbers.
10. Define a recursive & non recursive function to calculate the factorial of a number.
11. Write a C program to calculate the transpose of a matrix.
12. Write a C program to check the length of a string.
13. Write a C program to show the reverse of a string without using library function.
14. Write a program in C to determine whether an entered character is a vowel or not.
15. Write a program to check whether a string is palindrome or not.
16. Write a C program to print the following pattern:  
A B C D E  
A B C D  
A B C  
A B  
A

**17. Write a C program to print the following pattern:**

```
5 4 3 2 1
5 4 3 2
5 4 3
5 4
5
```

**18. Write a C program to print the following pattern:**

```
5 5 5 5 5
4 4 4 4
3 3 3
2 2
1
```

**19. Write a C program to print the following pattern:**

```
5
4 4
3 3 3
2 2 2 2
1 1 1 1 1
```

**20. Write a C program to print the following pattern:**

```
A
B C
D E F
G H I J
```

**21. Write a C program to print the following pattern:**

```
5
5 4
5 4 3
5 4 3 2
5 4 3 2 1
```

**22. Write a C program to print the following pattern:**

```
1
2 3
4 5 6
7 8 9 10
```

**23. Write a C Program to check whether the given number is Armstrong or not.**

**24. Write a C Program to check whether the given number is palindrome or not.**

25. Write a C Program to check whether the given input is vowel or consonant using switch case.
26. Write a c program to calculate the sum of n natural numbers using while loop.
27. Write a program in C to determine if an entered is leap year or not.
28. Write a program in C to determine whether a number is prime or not.
29. Write a program in C to determine whether a number is odd or even.
30. Write a program to find whether a number is prime or not.
31. Write a program to swap two integers without using 3rd variable.
32. Draw a program to calculate the maximum of three numbers.
33. Write a program to convert the temperature from Celsius to Fahrenheit and vice-versa.
34. Write a program to swap two integers with using 3rd variable.
35. Write a program to calculate the length of a string without using strlen() function.
36. Write a program to concatenate two strings without using strcat() function.
37. Write a program to calculate the reverse of a string without using strrev() function.
38. Write a program to print the following pattern:  
@  
@ @  
@ @ @  
@ @ @ @
39. Write a program in C to calculate 2nd minimum number among three numbers using conditional statements.
40. Write a program in C to calculate the factorial of a number using Recursion.
41. Write a program in C to find the largest and smallest element in an Array.
42. Write a program in C to perform addition and subtraction of two matrices.

**43. Write a program in C to find Sum of n input numbers using Array.**

**44. Write a program in C to sort the values of an array.**

**45. Write a program in C to search a particular data element from an array.**