Basic:

1. Write a Program to print Following output:

   Full Name

         College Name

               City Name

2. Write a Program to get 2 numbers from user and print addition of both the numbers.
3. Write a Program to get marks of 4 subjects from user and print total and average.
4. Write a Program to get a character from user and print the same along with its ASCII value.
5. Write a Program to get 2 numbers from user and perform swapping between them.

Ternary Operators:

6. Write a Program to get a number from user and check it is even or odd using ternary operator.
7. Write a Program to get 2 numbers from user and find out the maximum value using ternary operator (conditional operator).
8. Write a Program to get 3 numbers from user and find out the maximum value from them using nested ternary operator.

Conditional Statement:

9. Write a Program to get a number from user and check it is positive, negative or neutral number.
10. Write a Program to get a value from user and check it is a leap year or not.
11. Write a Program to get a number (between 0 to 9) and print the same in words.

    Example:

    Input: 1

    Output: One.

    Input: 5

    Output: Five.

12. Write a Program to get a Character from user (between a to z) and check it is vowel or consonant.

Loops:

While Loop:

13. Write a Program to Print Your Name on Console screen for the 10 times using while loop.
14. Write a Program to Print Following Series:

    A. 1 2 3 4 5 6 7 8 9 10
    B. 2 4 6 8 10 12 14 16 18 20
    C. 1 4 9 16 25 36 49 64 81 100
    D. 1/1 2/4 3/9 4/16 5/25 6/36 7/49 8/64 9/81 10/100
    E. 1/1 + 2/4 + 3/9 + 4/16 + 5/25 + 6/36 + 7/49 + 8/64 + 9/81 + 10/100

15. Write a Program to print Fibonacci Series.

    0 1 2 3 5 8 13 21 34 ……………………..

16. Write a Program to get a number from user and calculate its Factorial.
17. Write a Program to print summation of first 10 natural numbers.
18. Write a Program to get a number from user and print reverse of the number.
19. Write a Program to get a number from user and check it is Palindrome number or not.
20. Write a Program to get a number from user and check it is an Armstrong number or not.
21. Write a Program to get a number from user and print all its individual digits on separate line.

    Example:

    Input: 153

    Output:

    1

    5

    3

For Loop:

22. Write a Program to get a number from user and check it is a prime number or not.
23. Write a Program to print following outputs:

1)	2)	3)	4)	5)	6)	7)	8)
*	*****	1	1	5	5	12345	11111
**	****	12	22	54	44	1234	2222
***	***	123	333	543	333	123	333
****	**	1234	4444	5432	2222	12	44
*****	*	12345	55555	54321	11111	1	5

9)	10)	11)	12)	13)	14)	15)	16)
54321	55555	A	A	E	E	ABCDE	AAAAA
5432	4444	AB	BB	ED	DD	ABCD	BBBB
543	333	ABC	CCC	EDC	CCC	ABC	CCC
54	22	ABCD	DDDD	EDCB	BBBB	AB	DD
5	1	ABCDE	EEEEE	EDCBA	AAAAA	A	E

17)	18)	19)	20)	21)	22)
EDCBA	EEEEE	1	*	*	*
EDCB	DDDD	23	**	***	***
EDC	CCC	456	***	*****	*****
ED	BB	78910	****	*******	*******
E	A		*****	*********	*********
					*******
					*****
					***
					*

Array:

1 dimensional integer array:

24. Write a Program to get 10 Values in an array and print all the elements on separate line.
25. Write a Program to get 10 Values in an array and print all the elements on separate line in reverse order.
26. Write a Program to get 10 Values in an array and print all the even numbers.
27. Write a Program to get 10 Values in an array and print summation of all the elements.
28. Write a Program to get 10 Values in an array and find out the minimum valued element.
29. Write a Program to get 10 Values in an array and find out the maximum valued element.
30. Write a Program to get a number from user and check that number exist in the given array or not (using linear search or sequential search).
31. Write a program to sort the given array.
32. Write a Program to get a number from user and check that number exist in the given array or not (using Binary search).
33. Write a Program to get 10 Values in an array and find out the duplicate elements.
34. Write a Program to get 10 Values in an array and delete an element from a particular index.

2-dimensional integer array:

35. Write a Program to get 9 Values in a 3*3 2D array (Matrix) and print all the elements in the form of Matrix.
36. Write a Program to get 9 Values in a 3*3 2D array (Matrix) and print summation of all the elements.

37. Write a Program to get 9 Values in a 3*3 2D array (Matrix) and print the smallest element from the matrix.
38. Write a Program to get 9 Values in a 3*3 2D array (Matrix) and print the largest element from the matrix.
39. Write a Program to get 9 Values in a 3*3 2D array (Matrix) and print All the diagonal element from the matrix.
40. Write a Program to get 9 Values in a 3*3 2D array (Matrix) and print transpose of the matrix.
41. Write a Program to get 9 Values each in Two 3*3 2D array (Matrix) and print summation of both the matrix.
42. Write a Program to get 9 Values each in Two 3*3 2D array (Matrix) and print Multiplication of both the matrix.

Character Array (String):

43. Write a Program to get a String from user and print the same without any inbuilt function.
44. Write a Program to get a String from user and print its length with and without using any inbuilt function.
45. Write a Program to get a String from user and print its reverse with and without using any inbuilt function.
46. Write a Program to get a String from user and make a copy of the string into another character array with and without using any inbuilt function.
47. Write a Program to get a String from user and make a reverse copy of the string into another character array with and without using any inbuilt function.
48. Write a Program to get 2 Strings from user and compare both the strings with and without using any inbuilt function and check both the strings are identical or not.
49. Write a Program to get a String from user and print all its characters in all upper case with and without using any inbuilt function.
50. Write a Program to get a String from user and print all its characters in all lower case with and without using any inbuilt function.
51. Write a Program to get a String from user and check the string is Palindrome or not with and without using any inbuilt function.
52. Write a Program to get 2 Strings from user and concatenate (Merge) both the strings into another character array with and without using any inbuilt function.

Pointers:

53. Practice of Pointer Programming (Pointer to variable).
54. Pointer to Pointer (Double Pointer)
55. Pointer to integer array.
    A. Write a Program to get 10 Values in an array and print all the elements on separate line using pointer to integer array.
    B. Write a Program to get 10 Values in an array and print all the elements on separate line in reverse order using pointer to integer array.
    C. Write a Program to get 10 Values in an array and print all the even numbers using pointer to integer array.
    D. Write a Program to get 10 Values in an array and print summation of all the elements using pointer to integer array.
    E. Write a Program to get 10 Values in an array and find out the minimum valued element using pointer to integer array.
    F. Write a Program to get 10 Values in an array and find out the maximum valued element using pointer to integer array.

56. Pointer to Character array:
    A. Write a Program to get a String from user and print the same without any inbuilt function using Pointer to Character array.
    B. Write a Program to get a String from user and print its length with and without using any inbuilt function using Pointer to Character array.
    C. Write a Program to get a String from user and print its reverse with and without using any inbuilt function using Pointer to Character array.
    D. Write a Program to get a String from user and make a copy of the string into another character array with and without using any inbuilt function using Pointer to Character array.
    E. Write a Program to get a String from user and make a reverse copy of the string into another character array with and without using any inbuilt function using Pointer to Character array.
    F. Write a Program to get 2 Strings from user and compare both the strings with and without using any inbuilt function and check both the strings are identical or not using Pointer to Character array.
    G. Write a Program to get a String from user and check the string is Palindrome or not with and without using any inbuilt function using Pointer to Character array.

Function:

57. Basic Introduction program for function (Classroom practice).
58. Write a Program to get 2 numbers from user and print summation of both the numbers using function and global variables,
59. Write a Program to get a number from user and print the factorial of given number using call by value.
60. Write a Program to get a number from user and check it is prime number or not using call by value and return by value.
61. Write a Program to get a number from user and check it is Palindrome number or not using call by value and return by value.
62. Write a Program to get 2 numbers from user and Perform swapping between them using call by reference.
63. Write a Program to get 10 number from user in an array and print summation of all the elements using array as an argument (call by reference).
64. Write a Program to get 10 number from user in an array and Sort all the elements using array as an argument (call by reference).
65. Write a Program to get a number from user and calculate its factorial using Recursion.
66. Write a Program to get a number from user and print its binary using Recursion.

Dynamic Memory Allocation (Malloc and Free):

67. Write a Program to get a number from user and create an array of n size.
68. Write a Program to get n values from user in an array of n size and print all the elements of separate line using malloc and free function.
69. Write a Program to get n values from user in an array of n size and print all the elements in sorted order.

Structure:

70. Write a Program to get information of a student (Name, Enrolment number and percentage) from user and print the same using structure.
71. Write a Program to get information of 10 students (Name, Enrolment number and percentage) from user and print the same using structure in tabular form.
72. Write a Program to get information of n students (Name, Enrolment number and percentage) from user and print the same using structure in tabular form.