**Kharagpur College**
**Department of Computer Science & BCA**
**Subject: C programming Lab          Subject Code: BCAHMJ01**
**List of programs for laboratory work.**

1. Write a program in c to check whether a number is even or odd.

2. Write a program in c to find largest of three numbers.

3. Write a program in c to find sum of first n natural numbers.

4. Write a program in c to find factorial of a number.

5. Write a program in c to generate Fibonacci series.

6. Write a program in c to check whether a number is prime number or not.

7. Write a program to convert a Decimal number into its equivalent Binary number.

8. Write a program to convert a Binary number into its equivalent Decimal number.

9. Write a program in c to print multiplication table.

10. Write a program in c to reverse a number.

11. Write a program in c to check whether a number is palindrome number or not.

12. Write a program in c to count digits of a number.

13. Write a program in c to print the following patterns:

        *

        * *

        * * *

        * * * *

14.

        1

        1 2

        1   2 3

15.

         *

        * *

        * * *

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* *

 *
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16. Write a program in c to find factorial of a number using function.

17. Write a program in c to find power of a number ($a^b$) using recursion.

18. Write a program in c to calculate multiplication of two numbers (axb) using recursion.

19. Write a program in c to generate Fibonacci number using recursion.

20. Write a program in c to find sum and average of array elements.

21. Write a program in c to find largest & smallest element in an array.

22. Write a program in c to search an element from an array using Linear search or sequential search.

23. Write a program in c to add of two matrices.

24. Write a program in c to multiply of two matrices.

25. rite a program in c to find the length of string (without library function).

26. Write a program in c to copy of one string to another (without library function).

27. Write a program in c to reverse a string (without library function).

28. Write a program in c to check whether a string a palindrome string or not (without library function).

29. Write a program in c to swap two numbers using pointers.

30. Write a program in c to find the largest element using pointer.

31. Write a program in c to store student information using structure

32. Write a program in c to write data into a file.

33. Write a program in c to read data from a file.