CS23C04 PROGRAMMING IN C : 10.09.2026, 'P' Batch

1. Write a C program using *switch* to display the month name based on the month number.
2. Write a C program to print all even numbers from 1 to N using *while* Loop.
3. Write a C program to check whether a number is a palindrome using *while* Loop.
4. Write a C program to find the sum of digits of a number using *while* loop.
5. Write a C program to generate the Fibonacci series up to N terms using *for* loop. (If the input N is 10, then the Fibonacci series goes like this: 0, 1, 1, 2, 3, 5, 8, 13, 21, 34, ...)
6. Write a C program to find the factorial of a number using *for* loop.

Spot Questions:

1. Write a menu-driven C program using *switch* and loop to perform:
   - *Addition*
   - *Subtraction*
   - *Multiplication*
   - *Division*
   - *Modulus*

   Continue the program until the user selects Exit**.**
2. Write a C program to calculate the GCD of two numbers using *while* loop.
3. Write a C program to read an integer N and print all Armstrong numbers between 1 and N.

   Sample Input:

   Enter the value of N: 500

   Sample Output:

   Armstrong numbers between 1 and 500 are:

   1 153 370 371 407

Note: Armstrong definition- where the sum of the cubes of the digits equals the number. For example: $153=1^3+5^3+3^3=153$

4. Write a C program to read an integer N and print an inverted right-angled triangular pattern using the * character.

   Sample Input: 5

   Sample Output:

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