Total Marks: 15   **Class Test Examination - 2**   **Time: 30 Minutes**

Answer all the questions.

1. The GCD of two positive integers is the largest positive integer that divides both numbers without remainder, **[CO1]**   **5**
and LCM of two integers is the smallest integer that is a multiple of both numbers. Write a C program that takes
two numbers as input and finds the GCD and LCM of those numbers.

Sample input	Sample output
12 16	GCD=4
	LCM=48
15 18	GCD = 3
	LCM = 90

2. Write a C program to swap first and last digits of a number.   **[CO1]**   **3**

Sample input	Sample output
12345	52341

3. The Fibonacci sequence is a sequence where the next term is the sum of the previous two terms. The first two **[CO1]**   **4**
terms of the Fibonacci sequence are 0 followed by 1. Write a C program that takes N as input and print N terms
of Fibonacci series.

Sample input	Sample output
N=5	0 1 1 2 3
N=7	0 1 1 2 3 5 8
N=9	0 1 1 2 3 5 8 13 21

4. Write a C program to print a pyramid as follows of N rows, where N should be taken as input from the keyboard. **[CO1]**   **3**

Sample input	Sample output
N=4	4
	4 3
	4 3 2
	4 3 2 1