C++ Assignments on for, while , switch… case   date : 09 -12-2022

1.	Write a program in C++ to print GCD of two given numbers n1 , n2.
2.	Write a program in C++ to list non-prime numbers from 1 to an upper bound. Sample Output: Input the upper limit: 25 The non-prime numbers are: 4 6 8 9 10 12 14 15 16 18 20 21 22 24 25
3.	Write a program in C++ to find the sum of the series 1 +11 + 111 + 1111 + .. n terms. Sample Output: Input number of terms: 5 **Output has to be shown as below exactly**: 1 + 11 + 111 + 1111 + 11111 The sum of the series is: 12345
4.	Check if the particular number is Palindrome or not. – Use while statement
5.	Check whether a number is jumbled or not. A number is said to be jumbled if, for every digit, it's neighbour digit differs by max 1. For example, a number 1223 is jumbled, but 1256 is not jumbled.
6.	Check if the entered number is Armstrong number? A number is an Armstrong number if the sum of the cube of each digit of the number is equal to the number itself. Example 153
7.	Check a number is Krishnamurty number or not. A number is Krishnamurty number, if the sum of the factorial of each digit is the same as the number. For example, if a number is 145, then sum = 1! + 4! + 5! = 1 + 24 + 120 = 145. So this is a Krishnamurty number
8.	Write a program in C++ to print days of a given month – use switch.. case

9.	Write a program for basic calculator, which receives three values from input via keyboard.
	– use switch.. case
	
	    The first value as an operator (Op1) should be a char type and one of (+, -, *, /) characters with the following meanings:
	        '+' for addition (num1 + num2)
	        '-' for subtraction (num1 – num2)
	        '*' for multiplication (num1 * num2)
	        '/' for division (num1 / num2)
	    Program should receive another two operands (Num1, Num2) which could be float or integer.
	    The program should apply the first given operator (Op1) into the operands (Num1, Num2) and prints the relevant results with related messages in the screen.

10.	Write a program in C++ to print a given number in words. – use switch.. case Input : 5739 Output : FIVE SEVEN THREE NINE